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Athens State College
Athens, Alabama

1986 - 1987

ATHENS STATE COLLEGE

Catalog

(205) 232-1802

Athens, Alabama

Volume XI Number 1

Catalog and Announcements
for
1986-87

Founded in 1822
State Affiliated

ACCREDITATION AND MEMBERSHIP
The Southern Association of Colleges and Schools
The American Council of Education
Council for Advancement and Support of Education
American Association of Colleges for Teacher Education

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NON-DISCRIMINATION

Athens State College does not discriminate on the basis of race, color, national origin, religion, age, sex or marital status in admitting students to its programs or in administering its educational policies, scholarship and loan programs, athletics and other institutionally administered programs or activities generally made available to students at the college.

Athens State College complies with the provision of Title VI of the Civil Rights Act of 1964. The college is an equal opportunity employer. No person shall, on the ground of race, color, national origin, or sex be subject to discrimination under any program or activity of Athens State College. Further, Athens State College is complying with the provision of Section 504 of the Rehabilitation Act of 1973.

It is also the policy of Athens State College to comply with Title IX of the Education Amendments of 1972 which provides that "no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving federal financial assistance."

Any person who believes himself or herself, or any specific class of individuals, to be subjected to discrimination prohibited by Title VI or Title IX of the Act of Regulations issued thereunder may, be himself or herself or a representative, file a written complaint with the United States Commissioner of Education or with this institution (or both).

Athens State College is approved by the Alabama State Department of Education for the training of elementary, secondary, and postsecondary school teachers. The Alabama State Department of Education is a member of the National Association of State Directors of Teacher Education Certification.

The catalog is the official announcement of the programs, requirements, and regulations of Athens State College. Students enrolling in the school are subject to the provisions stated herein. Statements regarding courses, fees, and conditions are subject to change without advance notice.

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1986 - 1987
ACADEMIC CALENDAR

Fall Quarter 1986

August 8-15 ..... Early Registration
September 3 ..... Faculty/Staff Conference
September 4 ..... Regular Registration
September 8 ..... Redstone Arsenal Classes Begin
September 9 ..... Classes Begin on Campus
September 5 - 15 ..... Late Registration - Drop/Add
October 13 ..... Columbus Day Observed at Redstone Arsenal
October 14 ... Last Day to Withdraw Without Permission of Instructor
November 11 ..... Veteran's Day Holiday
November 12, 13, 14 ..... Professional Development Workshop
November 18 ..... Last Evening Class
November 19, 20, 24, 25 ..... Final Examinations - Evening Classes
November 20 ..... Last Day Class
November 24, 25 ..... Final Examinations - Day Classes
November 26 ..... Grades Due

Weekend Classes

Set #1	Set #2
September 12, 13, 26, 27	September 19, 20
October 17, 18	October 10, 11, 24, 25
October 31-Nov. 1	November 7, 8

Winter Quarter 1986-87

November 7, 10, 17, 18, 19, 20, 21 ..... Early Registration
December 1 ..... Regular Registration
December 2 - 8 ..... Late Registration - Drop/Add
December 3 ..... Classes Begin
December 22 ..... Christmas Holidays Begin
January 5 ..... Classes Resume
January 14 ..... Martin Luther King's Birthday Observed on Campus
January 19 ..... Martin Luther King's Birthday Observed at Redstone Arsenal
January 26 ... Last Day to Withdraw Without Permission of Instructor
February 16 .. President's Day Holiday Observed at Redstone Arsenal
February 25 ..... Last Evening Class
February 26, Mar. 2, 3, 4 ..... Final Examinations - Evening Classes
February 26 ..... Last Day Class
March 3, 4 ..... Final Examinations - Day Classes
March 6 ..... Grades Due

Weekend Classes

Set #1	Set #2
December 5, 6	December 12, 13
January 9, 10, 23, 24	January 16, 17, 30, 31
February 6, 7	February 13, 14

Spring Quarter 1987

February 13 - 20 ..... Early Registration
March 5 ..... Regular Registration
March 9 - 13 ..... Spring Holidays
March 12, 13 ..... College Closed
March 16 - 20 ..... Late Registration/Drop & Add
March 16 ..... Classes Begin
April 8, 9, 10 ..... Professional Development Conference
April 29 ..... Last Day to Withdraw Without Permission of Instructor
May 6 ..... Honors and Awards Convocation
May 21 ..... Last Evening Class
May 25 ..... Memorial Day Holiday Observed at Redstone Arsenal
May 25, 26, 27, 28 ..... Final Examinations - Evening Classes
May 26 ..... Last Day Class
May 27, 28 ..... Final Examinations - Day Classes
May 29 ..... *On-Campus Grades Due
May 30 ..... 165th Annual Commencement
June 2 ..... *Redstone Arsenal Grades Due

*Please note **Senior Grades** are due May 25.

Weekend Classes

Set #1	Set #2
March 20, 21	March 27, 28
April 3, 4, 24, 25	April 17, 18
May 15, 16	May 8, 9, 22, 23

Summer Quarter 1987

May 15 - 22 ..... Early Registration
June 8 ..... Regular Registration
June 9 - 16 ..... Late Registration - Drop/Add
June 10 ..... Classes Begin
July 1 ... Last Day to Withdraw Without Permission of Instructor -Day Classes
July 3 ..... Independence Day Holiday
July 9 ..... June Term Ends - Final Exams - Day Term
July 13 ..... First Two-Week Short Term Begins
July 22 ..... Last Day to Withdraw Without Permission of Instructor - Evening Classes
July 27 ..... Final Examinations - First Two-Week Short Term
August 3 ..... Second Two-Week Short Term Begins
August 17 ..... Final Examinations - Second Two-Week Short Term
August 18 ..... Last Evening Class
August 19, 20, 24, 25 ..... Final Examinations - Evening Classes
August 26 ..... Grades Due

Weekend Classes

Set #1	Set #2
June 12, 13, 26, 27	June 19, 20
July 17, 18	July 10, 11, 24, 25
July 31-Aug. 1,	August 7, 8

GENERAL INFORMATION

PURPOSE

Athens State College, a two-year upper-division institution located in north central Alabama, aspires to meld traditional and contemporary knowledge to produce individuals who can function in a changing society. The College combines individual attention with quality teaching in academic, continuing education, and community service programs designed for both traditional and nontraditional students. Further, through partnership with the postsecondary system of higher education in Alabama, the College aspires to provide general service, leadership and opportunity for growth and development, especially to the faculty, staff and students of two-year postsecondary institutions.

GOALS

I. To ensure an environment conducive to and supportive of a highly-qualified and motivated faculty and staff; to promote productive professional relationships among faculty and staff; to encourage participatory decision-making; and, to extend the knowledge and capabilities of faculty, staff and students into practice.

II. To effectively communicate the mission of Athens State College; to enhance the public image of the College; and, to establish Athens State College as an invaluable academic resource and model.

III. To provide general services, effective leadership and opportunity for growth and development.

IV. To enhance and support institutional planning, research and development toward the improvement of programs and services.

V. To continue a sound fiscal policy by acquiring necessary financial resources and efficiently administering those resources.

VI. To provide education opportunity to postsecondary students with a variety of abilities, skills, interests and aspirations, but especially to community, junior and technical college transfer students, through provision of carefully planned programs of study.

VII. To offer curricula at convenient times and places, utilizing various methods of instruction, cooperatively with other institutions of higher learning and in partnership with the various constituent groups.

VIII. To provide knowledge, skills and values to expand the social and cultural horizons of our students; and, to enable responsible participation and personal and professional mobility in an ever-changing society.

IX. To provide service and maintain learning resources, inclusive of library and audiovisual materials, supportive of student learning, quality teaching, scholarly research and individual interests.

X. To promote leadership, sponsorship and cooperation toward utilization of appropriate college and community resources in a continuing effort to provide cultural enrichment, leisure-time experiences, and opportunity for personal growth and professional development through a program of continuing education and community service.

XI. To provide and maintain a comprehensive program of readily available student services which shall provide necessary information, counseling and guidance to assist progress toward personal, academic, and career goals, and, to utilize College resources to enhance student life.

GOVERNANCE

Athens State college is a two-year, upper-division college operated under the control of the Alabama State Board of Education. The president is the chief executive officer of the college and is directly responsible to the State Board of Education through the Chancellor.

HISTORY

Athens State College is both the oldest and the youngest institution of higher education in Alabama's state educational system. The college was founded in 1822 by local citizens who purchased five acres of land, erected a building, and began Athens Female Academy. Ownership of the school was transferred in 1842 to the Tennessee Conference of the Methodist Church. With the birth of the North Alabama Conference of the Methodist Church in 1870, the college came under the jurisdiction of that body.

In May 10, 1974, the Board of Trustees voted to request from the North Alabama Conference of the United Methodist Church for the college to seek affiliation with the State of Alabama. The conference, at its annual meeting in June, 1974, gave the Board of Trustees this permission and authorized the transfer of the college to the State of Alabama.

In June 1975, the college was accepted by the Alabama State Board of Education subject to the appropriation of operating funds by the Alabama legislature. Later that year, the legislature appropriated funds for the operation of the college to serve the graduates of state junior, community, and technical colleges/institutes.

The institution's name has changed several times in its 164 year history, following adjustments in purpose and governance. Athens Female Academy, upon transfer to the Tennessee Conference of the Methodist Church in 1842, became Athens Female Institute. Then in 1889 after having been transferred to the newly formed North Alabama conference, the college was known as Athens Female College. In 1931, the college became co-educational and was known as Athens College.

In 1975, when the institution became part of the state educational system, it was renamed Athens State College, marking the initiation of and era of increased opportunity for service. Then in March, 1981, the Alabama Legislature placed Athens State College and John C. Calhoun State Community College under a single administration in order to "recognize and emphasize the strengths of each institution, improve the quality of programs and eliminate duplication of programs and develop a model for all higher education in the state of Alabama." The long history of service by Athens State College is the foundation upon which the future of the college rests.

ADMISSION OF STUDENTS AND APPLICATION PROCEDURES

ADMISSION OF STUDENTS

Athens State College is unique among all institutions of higher education in the state of Alabama. Athens State is the only two-year upper-division college or university in the state. As an upper-division college, Athens State offers programs and course work at the junior and senior levels. Therefore, Athens State serves primarily a target population of graduates and transfers from junior, community, and technical colleges as well as transfers from traditional four-year colleges and universities.

A student may complete requirements for graduation as specified in the Athens State College catalog for the year he or she enters Athens State College provided he or she does so within a period of five years from his or her original date of entry. In the event a student does not complete requirements for the undergraduate degree within a period of five years from the date of his or her entry, the College reserves the right to modify the student's program in such a way as to bring it into harmony with current degree requirements, as well as to re-evaluate credits transferred from other institutions.

DEGREE SEEKING

Admission of Junior College Transfer Students

A junior college transfer student may be admitted to Athens State College provided he or she has earned (1) a degree from a two-year institution accredited by the Southern Association of Colleges and Schools or other regional accrediting agency, or (2) ninety-six quarter hours of college credit with a 2.0 grade point average on a 4.0 scale.

A junior college transfer student may be admitted with eighty-six quarter hours provided he or she has a cumulative 2.0 grade point average on a 4.0 scale and written permission from the academic dean of the junior or community college. (This regulation applies when the student does not plan to receive the Associate degree from the junior or community college and does not need additional courses offered at the junior college level.)

Admission of Technical College/ Institute Transfer Students

A technical college/institute transfer student may be admitted to Athens State College as a regular degree-seeking student provided he or she has completed a technical program and has received a degree, diploma or certificate. The student must submit an official transcript for review. Credit may be awarded for a maximum of sixty-five quarter hours

depending on the particular technical program. Individually related subject courses and grades **cannot** be directly transcripted as regulated by the State Department of Education and the Southern Association of Colleges and Schools. Credit earned through this method will not be used in determining the student's cumulative grade point average.

Dual enrollment in a junior or community college and Athens State College may be permitted in order to allow the student an opportunity to complete the following junior college general education requirements.

Freshmen Composition	10 quarter hours
Mathematics	5 quarter hours
Science	5 quarter hours
Social Science	5 quarter hours
History	5 quarter hours

Admission of Four-Year College Transfer Students

A student who has completed a minimum of the freshman and sophomore years at an accredited four-year institution may be admitted to Athens State College as a transfer student. The student may transfer any number of credits to Athens State College; however, a minimum of forty-five of the final fifty-four quarter hours must be completed at Athens State College of which fifteen quarter hours must be completed at the main campus.

Admission of International Students

To be considered for admission to Athens State College, an international student must (1) hold an Associate degree from an accredited junior, community, or technical college/institute; (2) pay the application fee; (3) provide copies of all materials for evaluation, including official transcripts of any formal training; (4) provide proof of health insurance (hospitalization); and (5) may be required to complete competency testing to demonstrate proficiency in the English language.

An international student, once cleared for admission to the College, will be required to place on deposit with the Business Office of Athens State College a $1,500 U. S. cashiers check. Such deposit may not be utilized by the student at the beginning of each quarter to cover college tuition, books, room and board. Emergency use of the deposit must be reviewed and approved by the Dean for Student Development. If any portion of the deposit is used during a quarter, it must be replenished before the student enrolls for the following quarter. A minimum of $600 must remain in the account at all times. Such deposit shall be returned to the student upon permanent separation from the college.

Admission of Transient Students

A student wishing to be admitted to Athens State College as a transient student must complete an application for admission and provide the

Director of Admissions with (1) a letter of good standing and permission each quarter from the academic dean of the institution in which he or she is currently enrolled, and (2) approval from said dean for specific courses to be taken at Athens State College.

Upon completion of the course(s), the transient student must make a written request for an official transcript to be mailed to the institution in which he or she is enrolled.

Admission of Second Degree-Seeking Students

Students who seek a second degree must meet all admission requirements, complete all catalog requirements for the major in that degree, and must complete a minimum of forty-five quarter hours in residency (15 hours on the main campus) at Athens State College beyond the conferral date of the first degree.

Admission of Students on Probationary Status from Other Institutions

A student on probationary status from another institution who wishes to attend Athens State College must provide official transcripts from all colleges or universities previously attended. These transcripts will be reviewed by the Admissions Committee to determine admissibility.

A student who has been suspended indefinitely from another institution during the current academic year will not be permitted to enter Athens State College. However, the student who has been out of school for more than one year after being suspended indefinitely by another institution will be considered by the Admissions Committee for admissibility.

NON-DEGREE SEEKING

Non-degree seeking students are those students who have not met the usual requirements for admission to Athens State College. Non-degree seeking students should not circumvent attendance at the community/junior/technical college. Such a student should report directly to the Office of Admissions and Records for permission to register. Upon meeting college requirements, he or she may be admitted as a degree-seeking student. Records are kept of the work completed and credits are transferable to a degree program upon admission to Athens State College as a degree-seeking student.

Limited Study

A student who has not completed the required number of credit hours to be accepted as a regular degree-seeking student and who wishes to pursue a limited objective may be admitted to Athens State College as a limited study non-degree seeking student. The limited study student is restricted to a maximum of ten quarter hours per term with credit recorded as for a regular degree-seeking student. To avoid duplication

of credit, the limited study student should provide official transcripts from any college or university previously attended.

Personal Enrichment

A person who wishes to attend Athens State College for personal enrichment or self-improvement will be limited to ten quarter hours per term with credit recorded as for a regular degree-seeking student. This student will be admitted as a special non-degree seeking student and is not required to furnish official transcripts from other colleges or universities previously attended.

Auditing

A student who is currently attending high school or who has not earned a high school diploma or equivalent may only audit courses at Athens State College. No credit is awarded for auditing. Any individual may elect to attend classes at Athens State College on an audit basis, provided he or she has completed an application for admission. No change from audit to credit is allowed.

Teacher Certification

A student holding a degree from another institution and taking courses at Athens State College for teacher certification purposes is required to submit two copies of all official transcripts from each institution previously attended. These transcripts are not evaluated or recorded but are used in determining teacher certification requirements. (See "Teacher Education Certification Program," page 56.)

APPLICATION PROCEDURES

GENERAL

Application

Each student applying for admission to Athens State College must complete an application for admission and return the application to the Office of Admissions and Records accompanied by a required application fee of $15.00. This fee covers the cost of processing the student's file and is neither refundable nor applicable to tuition.

Transcripts

The student must provide official transcripts from each college previously attended. The applicant must request that these transcripts be sent directly to Athens State College, Attention: Office of Admissions and Records, Student Union Building, Athens, Alabama 35611. A student completing a program at another institution and seeking enrollment at Athens State College without sufficient time to arrange for official transcripts prior to registration may be admitted as a conditional student with all privileges of a regular student for the quarter. A student admitted under this provision must see that all official transcripts are received by the Office of Admissions and Records prior to the end of the quarter in which he or she first enrolled.

Official Student Records

In accordance with Public Law 93-380, the Family Educational Rights and Privacy Act of 1974, each student and former student of Athens State College has the right to inspect his or her official educational records in the Office of Admissions and Records. This right of inspection does not apply to any confidential information submitted to this office prior to January 1, 1975, nor to access by students or former students to financial records of their parents. Under this act, the college may not release information concerning a student without the student's written permission.

The Family Education Rights and Privacy Act in its entirety is available for student reference in the Office of Admissions and Records. Each student should become aware of the provisions of this act.

READMISSION

Admission of Former Students in Good Standing

A student who has previously attended Athens State College and is currently in good standing, including students returning after an absence of only one quarter, can be re-admitted automatically. The returning student should complete an application form to update personal information, but no additional application fee will be charged.

If the returning student plans to seek a degree from Athens State College and has attended another college or university during his or her absence from the college, official transcripts must be mailed directly from the college or university attended to the Office of Admissions and Records, Athens State College, Student Union Building, Athens, Alabama 35611.

TRANSFER OF ACADEMIC CREDIT

Athens State College operates on the quarter system. Credits earned in semester hours will be evaluated on the basis of one semester hour equals one and one-half quarter hours. (Example: a three semester hour course would equal 4.5 quarter hours.) Grades of "D" will not be accepted on the initial evaluation for a student having less than the required 2.0 grade point average. The student may petition at a later date through his or her advisor to have "D's" accepted, providing sufficient quality points are earned from Athens State College. Grades of "D" will not be accepted if such acceptance results in a grade point average below 2.0. Grades of "D" will be accepted on the initial evaluation if the overall grade point average is 2.0 or higher.

FINANCIAL INFORMATION

Athens State College is committed to providing a quality educational program at the least possible cost. Therefore, Athens State is especially committed to a professional and business-like approach in the management of its financial resources.

TUITION*

Alabama Residents

The Alabama resident tuition is twenty dollars ($20.00) per quarter hour, ($400 maximum). All fees are due and payable at registration. No student will be allowed to defer payments.

Out-of-State and Foreign Students

The out-of-state resident or non-U.S. citizen tuition is forty dollars ($40.00) per quarter hour, ($800 maximum).

HOUSING

Dormitory rooms are available through the Office of the Dean for Student Development. The cost for a double occupancy room is one-hundred and seventy-five dollars ($175.00) per quarter. A limited number of single occupancy rooms are available at a cost of two hundred and twenty-five dollars ($225.00) per quarter. The total per quarter cost is due at the time of student registration. A one time only fifty-dollar ($50.00) damage deposit is required from each student, payable upon acceptance of the student as a dormitory resident. Checks are to be made payable to Athens State College.

FEES, REFUNDS, AND RETURNED CHECKS

Fees

Teaching internship	$25.00
Music (piano, organ, voice) one ½-hour lesson	45.00
Special course fee (labs, off-campus, etc.)	15.00
Late Registraton fee	10.00
Drop or add . . . . . per course change	5.00
Transcript of grades (after first request)	1.00
Graduation fee	40.00
Auditing fee . . . . . per hour	10.00
Key deposit	2.00
Returned check fee	5.00
Parking decal	1.00
I. D. card . . . . . first time issued	1.00
Dormitory deposit	50.00
International student deposit	1,500.00
Diploma Re-order	12.50

*** Please be advised that tuition fees are subject to change at any point in time, subject to the approval of the Alabama State Board of Education.**

Refunds

Refunds are made only after an official withdrawal information form, obtained from the Admissions and Records Office and duly completed, is filed with the Business Office. The date the Business Office receives the official withdrawal form determines the refund period. Tuition for the **regular academic year** is refundable as follows.

Regular Academic Year Refund

Withdrawal Period	Percent Refundable
Prior to first day of classes each quarter	100%
During the first week	75%
During the second week	50%
During the third week	25%
After close of third week	0%

Tuition for the **weekend** and **short term classes** is refundable as follows:

Weekend Class Refund

Before first weekend class	100%
Before the first session of the second weekend class	75%
Before the first session of the third weekend class	50%
After the beginning of the third weekend class	0%

Short Term Refund

Before first class meeting	100%
Before 5:30 p.m. of the first day	75%
Before 5:30 p.m. of the second day	50%
Before 5:30 p.m. of the third day	25%
After third day	0%

The percentage refundable is calculated on the net amount after the non-refundable portion has been deducted. Fees are non-refundable.

Room prorated weekly. Any part of a week shall constitute a full week.

In unusual circumstances, such as illness or official government orders, students may petition the Academic Dean for special consideration.

The college reserves the right to suspend or expel students whose conduct is disruptive to the college. In such cases no refund is made.

Generally, refund checks will not be issued before the end of the sixth week of the quarter. Drop fees are deducted from tuition refund.

Returned Checks

Students whose checks fail to clear their bank accounts, for whatever reason, including "Insufficient Funds", "Account Closed" or "Payment Stopped", must pay a $5.00 returned check fee. If the check in question is for payment of tuition, an additional $10.00 late fee will be charged.

All checks not cleared are forwarded to the Limestone County District Attorney for collection.

Grades Withheld

A student failing to meet his or her financial obligations to the college may have his or her quarterly grade report and all other academic transactions withheld until such obligations are cleared through the Business Office. Such obligations include unpaid fees, overdue library books, damaged or unreturned college equipment, dormitory damage, unpaid student loans, and parking fees. A student may be withdrawn from classes and not permitted to register until he or she has cleared his or her financial obligations.

FINANCIAL AID

Students Rights and Responsibilities

A consumer information brochure will be published annually by the Office of Student Financial Services. This brochure will contain detailed information and institutional policies and procedures for the various forms of financial aid. The brochure will also contain any necessary revisions to financial aid programs, due to any changes in federal or state regulations.

VETERANS EDUCATIONAL BENEFITS PROGRAM

Eligibility

Veterans are eligible for educational benefits if they have served active duty for a period of not less than 181 days and were discharged or released from service under conditions other than dishonorable. Educational benefits are available for a period of ten years from the last date of service. Benefits for disabled veterans may be approved under certain conditions of disability on an individual basis.

Application

If benefits have never been received previously, the student must complete VA Form 22-1990 (Application for Education Benefits). A copy of the DD 214 must be submitted along with the application. If benefits have been received previously at another institution or if benefits have been used in another program, the student must complete VA Form 22-1995. When applying for the dependent's rate, the student must submit marriage and/or birth certificates. All necessary forms are available in the Office of Student Financial Services.

Selection of Program

In consultation with an admissions counselor or an academic advisor, each veteran student must select and plan a program in accordance with the Athens State College Catalog. Assistance in determining a course of study or a change of program will be furnished by the Office of Student Financial Services.

Course Load

A full-time course load for a student receiving veteran's benefits is twelve quarter hours or more; a three-quarter time load is nine quarter hours, a one-half time load is six quarter hours. Less than six quarter hours is considered less than one-half time and the veteran is paid in the form of tuition reimbursement.

Current VA regulations apply for all short term courses which do not satisfy the minimum amount of contact hours per week, regardless of the amount of credit hours earned for such courses. For complete information regarding "short term courses" contact the Office of Student Financial Services.

Standards of Progress

The following standards must be met in order for veterans or other eligible persons to receive VA benefits:

1. grading system as required by the academic standards of the school
2. satisfactory grade level as required by the academic standards of the school
3. probation and probationary periods as required by the academic standards of the school
4. conditions for dismissal, suspension, and readmission as required by the academic standards of the school
5. satisfactory student conduct as required by the rules and regulations of the school.

In addition to failing to meet the standards of the school, the student who receives VA benefits will have his or her pay suspended should he or she make the grades of "F" and "I" preventing completion of his or her program within the required time limit. Reports of unsatisfactory progress or conduct will be made to the Veterans Administration Regional Office and the student may require counseling.

Withdrawal Policy

Students who receive veterans benefits must notify the Office of Student Financial Services when dropping or adding a course and when withdrawing from school. Each withdrawal or drop resulting in a reduction in the course load must show (1) the effective date of the change, (2) the reason for the change, and (3) the grade level at the time of the change if after the drop and add period. The withdrawal policies of the school also apply.

PAYMENTS AND RESPONSIBILITIES

Receipt of Checks

A student who completes an application at the beginning of the quarter should expect a VA processing period of about six weeks. If the estimated time has elapsed and a check has not arrived, the student

should contact the Office of Student Financial Services immediately and, if the case warrants, an inquiry will be made to the Regional Office.

Payment

Since Athens State College does not participate in the advance payment plan for veterans, tuition and fees must be paid in full at the time of registration (except for those veterans receiving Vocational Rehabilitation). Veterans receiving Vocational Rehabilitation are eligible to register without payment of tuition and fees providing that an award authorization letter has been received prior to the registration period.

Overpayments

Each veteran drawing benefits should be aware that it is his or her responsibility to comply strictly with the policies and procedures which govern the receipt of educational benefits. Any overpayment created through non-compliance with veterans policies is subject to repayment, and such overpayment can cause a delay in the payment of further benefits.

Responsibilities

It is the responsibility of the veteran and dependents receiving VA benefits to notify the Office of Student Financial Services of the following:

A. Major subject
B. Prospective graduation date
C. Changes
   1. drops and/or adds
   2. credit level
   3. major
   4. dependency status

OTHER TYPES OF ASSISTANCE

Dependents Educational Assistance Program

The Dependents Educational Assistance Program provides for the education of dependents of veterans who were either killed or permanently disabled while in the service. Those dependents of service persons termed missing in action or forcibly detained are also eligible. Payments of up to $342 a month for a maximum of forty-five months are usually provided for children between the ages of eighteen and twenty-six. Marriage does not interfere with this benefit.

Post-Vietnam Veterans (VEAP) Educational Assistance Program

The Post-Vietnam Veterans Educational Assistance Act is basically a voluntary, contributory matching program for persons entering the service after December 31, 1976. Benefits are accumulated from the participant (service person) and matching funds from the VA at the rate

of $2.00 for every $1.00 contributed by the participant. The participant's contribution is limited to the range of $50 - $75 monthly up to a maximum of $2,700. The basic cut-off date is ten years after the last date discharged from active duty after January 1, 1977. Entitlement is limited to a maximum of thirty-six months or the number of months of participation, whichever is less.

Work Study Program

To be eligible for work-study a veteran must be enrolled in a full-time course of education under the GI Bill of the Veterans Vocational Rehabilitation Program. Preference is given to disabled veterans. Attempts are made to capitalize on the student's major area of study so that the work performed will be a practical extension of his or her education. Veterans may work up to a maximum of 250 hours per enrollment term. Payment for the work performed is at the prevailing minimum hourly wage rate in addition to the usual subsistence allotment. An advance equal to the first one hundred hours work is available as soon as the employment agreement is processed. After the initial one hundred hours, the VA pays the work-study student after each additional fifty hours of work.

Tutorial Assistance Program

Veterans enrolled on a half-time or greater basis may receive a special allowance for individual tutoring. To qualify, the veteran must demonstrate deficiency in a particular subject making tutoring necessary. Each tutor's qualifications must be reviewed and approved by the Office of Student Financial Services. Under this program a veteran may receive up to $84 per month with a maximum of $1,008 in tutorial fees.

GENERAL INFORMATION

The Veterans Assistance Program at Athens State College is based on the rules and regulations and policies and procedures of the Veterans Administration and as such is subject to change without notice. Up to date information concerning pay scales and other educational benefits, can be obtained by contacting the Office of Student Financial Services.

STUDENT AFFAIRS

To promote personal growth and professional development, Athens State College students are strongly encouraged to participate in campus extracurricular activities, and to utilize the services provided by the College. Additional detailed information for these activities and services, rules and regulations relative to student conduct and student rights and responsibilities are found in the Student Handbook.

STUDENT GOVERNMENT ASSOCIATION

All members of the student body belong to the Student Government Association. Officers and organizational representatives are elected annually. The college organizational structure provides for and encourages democratic student involvement in the affairs of the college.

The Student Government Association meets at regular intervals and the meetings are open to all students who wish to observe the proceedings. Every student should feel at liberty to make suggestions to the Student Government Association, to any committee, or to any officer of the college administration.

CLUBS AND ASSOCIATIONS

Biology Club

The purposes of this organization are to advance academic and research interest in biological sciences and to enrich the Biology program at Athens State College. Students developing a major or minor in Biology are eligible for membership.

Ministerial Association

Students entering church-related work are members of this organization.

Physical Education Club

The purpose of this organization is to develop leadership, scholarship and professional awareness in students majoring or minoring in Physical Education at Athens State College.

Psychology Club

The Psychology Club, composed of students majoring or minoring in Psychology or the Behavioral Sciences, has as its major objective the advancement of Psychology as a science and the enrichment of the Behavorial Science program at Athens State College. The Psychology Club has been instrumental in facilitating certain curriculum changes such as the introduction of a course in biofeedback and in securing experimental laboratory equipment. The Club maintains an updated graduate catalog file and assists in a variety of departmental research projects.

The Psychology Club's academic functions are balanced by sponsoring and promoting numerous campus activities, most of which are designed to stimulate student involvement and to provide interaction among students, faculty, and administration.

Bear Paw Spirit Club

This club's purpose is to promote unified and organized school spirit through support of the Athens State College basketball team. Membership is open to all Athens State College students.

Chi Beta Phi

Students with acceptable grades, a major or minor in one of the sciences, and a sophomore standing may belong to this national honorary science fraternity.

Delta Mu Delta

This is the national honor society in business administration. Candidates for membership are scholastically qualified students of good character who have completed at least half of the work required for the B.S. degree in Business Administration. Student membership is selected by the faculty members of the Division of Business Administration from only the top 20 percent of each class based on cumulative grades. To be considered, a student must have a minimum 3.6 grade point average in all coursework including business administration.

Kappa Delta Pi

Kappa Delta Pi is a national education honor society. Students are eligible for consideration when they have accumulated enough credit hours to reach senior status. Students are selected by a committee which evaluates them for outstanding academic achievement, scholarly ideals, and professional promise.

Phi Alpha Theta

Phi Alpha Theta is an international honor society in history. Membership is open to students, professors and alumni who have achieved excellence in history. The Alpha Beta Lambda chapter was established at Athens State College in 1984.

Pi Tau Chi

This is a national honorary religious society. Membership is by invitation to those who have rendered outstanding service in religious activities.

Psi Chi

Psi Chi is a national honor society in psychology. Membership is open to students, professors and alumni who have achieved excellence in psychology. Psi Chi was established at Athens State College in 1985.

Sigma Tau Delta

The English honor society is a member of the National Association of College Honor Societies and is open to English majors and minors and to published writers, mainly of upper division status. The organization sponsors an annual campus-wide writing contest. The Kappa Zeta chapter was founded here in 1954.

SOCIAL FRATERNITIES

One national women's social fraternity, **Phi Mu** and one national men's fraternity, **Tau Kappa Epsilon,** have chapters on the Athens State College campus.

PUBLICATIONS

The Student Handbook is a compilation of rules and regulations affecting or governing student life at Athens State College.

The Athenian, the college newspaper, provides an opportunity for students to develop in the field of journalism and to express themselves on campus issues.

The Gyre is an annual student publication which gives the student an outlet for creative writing. All stories, poems, and plays are student written.

ATHLETICS, INTRAMURALS, AND CAMPUS RECREATION

Intercollegiate Athletics

Athens State College is an active member of the Southern States Conference. Additionally, the college is a member of the National Association of Intercollegiate Athletics. The Athens State College Bears have established a winning tradition in basketball.

Intramural Program

The intramural program is designed to provide athletic competition among Athens State College students. This program includes football, volleyball, basketball, tennis, bowling, and golf.

Campus Recreation Program

Excellent on-campus recreational facilities are available for use by students and their immediate families. These facilities include the Carter Physical Education Center (gymnasium, swimming pool, weight rooms) and the Student Center (gameroom, TV lounge, "Bear Cage" snack bar).

STUDENT SERVICES

Library

All currently registered Athens State College students are encouraged to make full use of the library and its facilities. The Athens State College Library has in its collection approximately 64,000 volumes, current and

back issues of over 400 periodicals, and current subscriptions to eleven daily and weekly newspapers. Library policy allows students access to the resources of neighboring college libraries (John C. Calhoun State Community College, the University of Alabama in Huntsville, and Alabama A & M University).

Business Office

The Business Office handles financial transactions including check cashing and the issuance of campus parking permits.

Bookstore

Located on the lower level of the Student Center, the Bookstore carries a full line of college textbooks, instructional and educational materials, and a variety of items incidental to student needs.

The Student Center

Admissions Counseling
Admissions and Records Office
Bookstore
Campus Post Office
Career Placement Service/Cooperative Education
Dean for Student Development Office
Evening Services Office
Office of Student Financial Services
Food Service/"Bear Cage" Snack Bar
Promotional Services
Special Services Office
Student Activities
Student Government Association
Study Lounge
Testing Service

Brown Hall

The offices of the President, the Academic Dean, and Alumni Director are located in Brown Hall.

Founders Hall

The following offices and student services are located in Founders Hall:

Business Office
Library

Testing Services

Athens State College offers certain testing programs for the convenience of Athens State College students and the community. Information pertaining to these programs can be obtained in the Student Center.

Testing services offered by Athens State College include:

- *College Level Examinations Program
- *GED Examinations
- *English Language Proficiency Test
- *Miller Analogies Test (Note: This test is administered by appointment only in the Psychology Department.)

Special Services

The Special Services Office provides a tutorial program for students, admissions counseling, and serves as a counseling center for International students.

Evening Services Office

Athens State College provides an evening services office which serves as an information center for evening students, provides admission assistance and counseling and any other assistance needed to meet the needs of the evening program.

ACADEMIC AFFAIRS

DEGREE OPTIONS

Athens State College offers three baccalaureate degree options: the Bachelor of Arts degree, the Bachelor of Science degree, and the Bachelor of Science in Education degree. Each degree program has been examined and accredited by the Southern Association of Colleges and Schools. This accreditation was reaffirmed in December, 1979.

Bachelor of Arts

The degree of Bachelor of Arts is awarded to students who satisfactorily complete the following general education requirements, requirements for the major and minor in their program of study and applicable general college requirements and conditions for graduation (page 26.)

English Composition	10 quarter hours
Literature	10 quarter hours
History	10 quarter hours
Humanities Electives (must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours
Social Science Elective	5 quarter hours
Behavioral Science Electives	10 quarter hours
Natural Science (May include one approved Computer Science elective)	15 quarter hours
Mathematics	5 quarter hours

Bachelor of Science

The degree of Bachelor of Science is awarded to students who satisfactorily complete the following general education requirements, requirements for the major (and minor, if applicable) in their program of study, and applicable general college requirements and conditions for graduation (page 26).

English Composition	10 quarter hours
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours
Social Science Electives	10 quarter hours
Behavioral Science Electives	10 quarter hours
Natural Science (May include one approved Computer Science elective)	15 quarter hours
Mathematics	5 quarter hours

Bachelor of Science in Education

The degree of Bachelor of Science in Education is awarded to students who satisfactorily complete the general education requirements, professional education requirements, requirements for the major(s) in their program of study, and applicable general college requirements and conditions for graduation.

The student is referred to the Division of Education section of the Catalog to determine specific program requirements. General college requirements and conditions for graduation are found on page 26.

ACADEMIC POLICIES

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR INSURING THAT HE OR SHE KNOWS THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

Academic Advising

Upon admission to Athens State College, each student is assigned an academic advisor from the department of his or her major subject by the Division Head. The student should confer with his or her advisor at least once each quarter. Although the student bears final individual responsibility for meeting all degree requirements, the academic advisor will assist in planning the student's academic program. Adjustments of a curriculum must be approved by the Academic Dean.

Credit Hours

The Athens State College calendar consists of quarter-length terms; the unit of credit is the quarter hour. Course descriptions indicate the number of quarter hours which may be earned for a particular course.

Grade Points and Letter Grades

For each hour of credit in a subject, the letter grade is equated to grade points as follows:

"A" 4.0 points
"B" 3.0 points
"C" 2.0 points
"D" 1.0 points
"F" 0.0 points

"W" Withdrawn
"I" Incomplete
"NG" No Grade
"AU" Audit

Class Hour Load

The normal class hour load for a full-time student is 15 to 18 hours per quarter. Students who wish to take more than twenty hours must secure written permission from the Academic Dean; however, the maximum load is twenty-three quarter hours. Permission will be granted for an overload (21-23 quarter hours) if the student meets one of the following criteria:

(1) The student is a graduating senior
(2) The student meets the following minimum grade point average requirements:

Grade Point Average	
3.2	20 hours
3.3	21 hours
3.4	22 hours
3.5	23 hours

(3) The student is experiencing a scheduling problem resulting from the time frame of certain course offerings and program requirements.

Audited Courses

Upon recommendation of his or her advisor, a student may audit a non-laboratory course. Students should attend class under the same obligation as the credit student although they are not required to complete scheduled examinations. Standard registration procedures apply. The cost is one-half the regular tuition cost plus the appropriate fees. No change from audit to credit is allowed. However, for the purpose of determining a student's class hour load, audited courses are included.

Directed Study/Research Courses

With approval of their faculty advisor and appropriate division head, Athens State College students may complete no more than 10 quarter hours of Directed Study/Research credit during their academic study with the College. Such directed research must be conducted in the student's major area of study.

Student Classification

Juniors - Students who have earned a minimum of ninety-six quarter hours of credit or who have received an Associate degree from an accredited two-year college.

Seniors - Students who have completed a minimum of 144 quarter hours of credit.

Non-Degree Seeking - Student not seeking a degree

Second Degree

Students who seek a second degree must meet all admission requirements, complete all catalog requirements for the major in that degree, and must complete a minimum of forty-five quarter hours in residency (15 quarter hours on the main campus) at Athens State College beyond the conferral date of the first degree.

Transfer Credit Restrictions

After achieving junior status or ninety-six quarter hours, a student may not transfer credit for courses taken at a junior college except by prior written permission from the Academic Dean.

Transfer students who have completed a major before enrolling at Athens State College may be required to take selected courses for the major at this institution.

Course credit taken at the graduate level or applied toward a graduate degree will not be accepted at Athens State College or recorded on the Athens State College transcript. However, certain courses may be used as substitutions or waivers for a specific course in the Athens State College degree program but will not affect the total hours residency required for that degree program.

Correspondence Credit

Any extension or correspondence credit must be from an accredited college or university, not to exceed eighteen quarter hours. The student must petition through his or her advisor and in turn obtain permission from the Academic Dean for credit through extension or correspondence courses.

Transient Credit

Any student in good standing who desires to take a course at another college and transfer credit to Athens State College must first petition to do so through his or her advisor. A letter of permission must be obtained from the Admissions and Records Office. Once a student has reached junior standing, special permission must be obtained from the Academic Dean to return to a junior college. Students on probation are ineligible to enroll for transient credit at other institutions.

Academic Probation and Standards of Progress

The Athens State College policy to unsatisfactory academic progress is designed to assist the student in meeting and maintaining a level of achievement that will assure reasonable progress toward graduation. All students should be aware that a cumulative grade point average of 2.0 on a 4.0 scale is required for graduation. Students should consult the section of the catalog relating to their major to determine any G.P.A. restrictions.

An academic review of each student's record occurs at the completion of each term. Any student whose grade point average at Athens State College falls below 2.0 is immediately placed on academic probation. *A student whose subsequent grades indicate improvement but who fails to raise his or her grade point average to 2.0 will be placed on probation (continued normally not more than three terms) to allow time to repeat courses or otherwise raise the grade point average to the 2.0 minimum. However, any student who fails to attain at least 1.0 grade point average during any term may be dropped for poor scholastic standing.

Students who are dropped for poor scholastic standing may be re-admitted to the college only upon petition to the Admissions Committee. Such students are not automically re-admitted but will be given consideration.

Upon re-admission after being dropped for academic reasons, the student is placed on restrictive probation. Students on restrictive probation must maintain a minimum of 2.0 grade point average each quarter. Failure to maintain the required 2.0 after being placed on restrictive probation will cause the student to be placed on indefinite suspension and dropped from active student status.

Students placed on indefinite suspension will not be considered for re-admission for at least one full academic year. The student must make a written request to the Admissions Office at least one month prior to the registration period of the intended term on re-entry.

Students with probationary status at Athens State College cannot receive permission to take coursework from another institution. Credit earned at another institution may not be used to clear probationary status at Athens State College.

Letter grades of "A", "B" or "C" represents levels of accomplishment sufficient to allow the student to make satisfactory progress toward graduation. "D" level work is considered inferior and the minimum-level accomplishment that will allow the students to continue their studies at Athens State College. A grade of "F" is assigned to the student who (1) fails to meet minimum course requirements, (2)voluntarily discontinues class attendance without officially withdrawing, or (3)officially withdraws from a class but is doing failing work at the time of withdrawal.

A grade of "W" will be assigned to a student who officially withdraws during the first six (6) weeks of the regular quarter.

A grade of "I" will be given only under extenuating circumstances and normally will be used to indicate either (1) the student has secured instructor's permission to complete missing or late work, or (2) the

*A grade of "I" indicating an incomplete grade is computed into the grade point average in determining a student's probationary status.

student has obtained prior permission from the Academic Dean to take a make-up final examination. Other possible valid reasons for assigning a mark of "I" must be decided by the instructor and the Academic Dean.

A student receiving a grade of "I" in any quarter should be aware that the requirements to remove the "I" must be completed before the end of the next quarter or the "I" automatically becomes an "F" For the purpose of computation "I" is always evaluated as "F" until a grade change is made.

Grades of "W", "NG", and "AU" do not affect the quality point average.

Class Attendance

It is accepted academic philosophy that sustained class attendance is essential to the overall educational value of a course of study in higher education. In order to achieve maximum benefit from educational activities, Athens State College expects regular class attendance from all students. Those students receiving veterans' benefits are required to attend classes according to the regulations of the Veterans Administration.

The standards of performance to be met by each student, including specific attendance regulations for each course will be set by each faculty member for his or her own course. Class attendance policies and other course requirements will be published in the course syllabus and will be discussed in detail by the faculty member on the first day of classes each quarter. It is important that the student secure a copy of each course syllabus from the instructor on the first day of class, or from the divisional offices prior to the beginning of classes. A student's performance in relation to the established standards and class attendance regulations shall determine the student's grade in a course. Any student who must miss an examination has the responsibility for notifying the faculty member as soon as is practical.

Repeated Courses

A student who has made an unsatisfactory grade in a course and who wishes to repeat the course to earn a higher grade must repeat the course at Athens State College. A grade earned with Athens State College will be listed on the official transcript, but only the last course attempted will be used in computing the grade point average and will be applied toward the degree. Application for a change of grade must be completed in the Admissions and Records Office.

Non-Traditional Credit

Evaluation of non-traditional credit is based on the proposition that it is sound educational practice for colleges and universities to grant academic credit for quality educational programs conducted by noncollegiate organizations. Non-Traditional academic credit will be awarded only in those cases where the credit awarded will meet a specific graduation requirement or justify an applicant's acceptance as a regular student at Athens State College.

The standards established by the American Council on Education and other accrediting and leadership agencies are used as guides for evaluating non-traditional learning. Credit may be awarded at either the lower or upper level depending upon the nature and longevity of the learning experiences.

The student who wishes to receive non-traditional credit must be enrolled at Athens State College. He or she should then submit a detailed chronological listing of his or her experiences with proper documentation to the office of Admissions and Records.

Normally non-traditional credit applications are reviewed only once and credit is awarded only if applicable to the student's degree requirement. Special circumstances may warrant challenge exams. Such exams must have the approval of the Academic Dean.

A maximum of ninety-six quarter hours earned through nontraditional methods may be applied toward a degree from Athens State College. The types of non-traditional credit, documentation, and procedures to follow are:

Military Training - Athens State College may award credit to students who have served in the Armed Forces and have specialized training provided the following documentation is received:

(1) copies of DD214, Form 20, or other documentation of military courses or training
(2) copies of certificates, awards, or other documentation related to military courses or training
(3) copy of military personnel record obtained from either the Army Educational Center or the organizational personnel office (applicable only to in-service military personnel).

Vocational/Technical/Professional Education - Athens State College may award credit for vocational and technical professional education provided the following documentation is received:

(1) documentation for teaching professional education, e.g. letter from director or president specifying length of tenure as teacher and validating the successful nature of the experience.
(2) documentation of work experience
    (a) journeyman status card
    (b) apprenticeship certificate
    (c) journeyman examination credentials
(3) documentation of additional training
    (a) any certificates, letters, or transcripts of additional technical training
    (b) official transcripts from all previously attended educational institutions

Work experience credit may be validated by the National Occupational Competency Testing Institute (NOCTI) or another

comparable examination of competency approved by the Postsecondary Education Services of the State Department of Education.

For certification requirements, at least three years compensated work experience in the technical specialty is required for those who have completed a formal postsecondary technical training program; those who have not completed the formal technical training must have completed six years compensated work experience in the technical specialty.

Nursing Training - Athens State College may award credit to a student who has completed nursing school training and holds the RN license. The following documentation is required:

(1) official transcripts of nursing school training
(2) copy of RN license or proof of successful completion of the State Board Examination
(3) documentation of work experience in the related field -- e.g., letters from employers and/or documentation of teaching in related field to include dates and positions held.

Business School, Proprietary, or Other Non-Accredited Institutions -- In some instances Athens State College may award credit from business schools, proprietary schools, or other non-accredited institutions on a conditional and non-graded basis provided the student successfully completes thirty quarter hours of credit at Athens State College and maintains a 2.3 or better grade point average. The following documentation must be provided:

(1) official transcripts of all course work or proof of training (transcripts must identify hours of class training or credit hours and proof of satisfactory completion).
(2) documentation of work, experience or teaching experience in related areas which includes dates and positions held.

Work Experience - Up to a maximum of 20 quarter hours credit may be awarded by the process of Extra-Institutional Evaulation only for specific Athens State courses based on work experience of non-academic training/education courses. Application for such non-traditional academic credit must be made to the Admissions and Records Office and must contain the following:

(a) A statement of the specific course(s) for which credit is desired.
(b) Sufficient documentary evidence that an equivalent body of knowledge that is pertinent and up-to-date in accordance with the course description in this catalog is covered.

Once verification of sufficient documentation is complete, academic credit may be awarded provided that the applicant verify attainment of a sufficient body of knowledge through appropriate evaluation (this should include a demonstration of comprehensive knowledge and/or skills appropriate to the discipline and course involved). The evaluation

must be made by the academic unit in question and is subject to written approval by the division head and the Academic Dean. A fee of $25 is required for each course submitted for evaluation.

Police Academies - Athens State College may award credit to students who have completed police academy training and who have work experience with law enforcement agencies. The following documentation is required:

(1) documentation or proof of police academy training
(2) letters of documentation from supervisors or employers indicating dates of service and positions held.

College-Level General Education Development (GED), the Defense Activity for Non-Traditional Education Support (DANTES), and the United States Armed Forces Institute (USAFI) - Credit earned under the auspices of college-level General Educational Developmental (GED), the Defense Activity for Non-Traditional Education Support (DANTES), and the United States Armed Forces Institute (USAFI) may be granted by Athens State College. At the present time, Athens State College accepts percentile ranks and minimum scores as recommended by the Commission on Education Credit of the American Council on Education. Official transcripts of these scores must be mailed directly to the Office of Admissions and Records.

College Level Examination Program (CLEP) - Athens State College honors credit earned through the College Level Examination Program (CLEP), providing appropriate scores are achieved. Students enrolling or enrolled at Athens State who are interested in attempting the College Level Examinations should consult the Office of Special Services or the Admissions Office for information.

A student may not receive CLEP credit for any previously attempted college course. Since CLEP is accepted as non-graded credit, it cannot be used in order to raise the grade point average.

All General Examination CLEP is accepted as freshman-level credit. All CLEP subject examinations are lower-level credit unless otherwise petitioned.

Although credit may be awarded by the college, applicability toward the degree program is determined by the division concerned.

Subject examination scores are acceptable with a minimum score equivalent to a grade of "C" or better. No essay is required.

Other Means of Earning Non-Traditional Credit - Credit may be awarded from other sources, such as Certified Professional Secretary, American Institute of Banking, Federal Aviation Administration and United States Postal Service, provided proper documentation is submitted. Students should contact the Admissions and Records Office for additional information.

Credit for a course taken in a non-collegiate organization will be granted only if the student has not completed a comparable course. Credit is granted only if it is applicable to the student's degree requirements.

Continuing Education Units - Athens State College does not accept continuing education units (CEU's) for academic credit.

GENERAL COLLEGE REQUIREMENTS AND CONDITIONS FOR GRADUATION

A student expecting to receive a degree from Athens State College should apply for graduation not later than the registration period of the term in which he or she expects to graduate. A student must meet satisfactorily all college requirements and obligations before the degree is awarded.

To graduate, each student must meet the following general college requirements and conditions:

(1) Forty-five of the last fifty-four quarter hours of study with Athens State College.
(2) A minimum of fifteen quarter hours on the Athens State College main campus.
(3) Sixty-three quarter hours of 300/400 level college credit.
(4) A minimum of twenty quarter hours of upper division (300/400) level coursework in his or her major at Athens State College, not including courses taken by consortium arrangement. Divisional or departmental regulations may require more than twenty quarter hours of coursework in the major at Athens State College.
(5) A minimum of ninety-six quarter hours of senior college credit.
(6) All course requirements for major(s).
(7) All course requirements for minor (if applicable).
(8) General Education requirements for the degree. (pg. 17-18)
(9) An overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State College, and at least a 2.0 in the major field.
(10) A total of 192 quarter hours including all the above.
(11) The teacher certification requirements (if applicable).
(12) No more than ninety-six quarter hours of non-graded college credit is applicable toward the degree.

ACADEMIC PROCEDURES

Drop and Add

For a period specified in the college calendar immediately following registration periods, courses may be dropped and other courses added upon completion of the following procedures:

(1) secure permission from the academic advisor

(2) complete the appropriate forms in the Office of Admissions and Records
(3) Make payments as required in the Business Office (NOTE: Each change in class schedule requires a $5.00 drop or add fee)

Those attending the college and receiving veterans benefits or financial aid must check with the Coordinator of Student Financial Services prior to making a change in schedule.

Withdrawal

A student may withdraw from a course with a grade of "W" at any time during the first six weeks of the regular quarter. After this date, a withdrawal "W" will be possible only with permission of the faculty member concerned. A student not following these procedures will receive the grade of "F".

Withdrawal from classes is not complete until the student has been cleared through the Office of Admissions and Records. Special regulations pertain to those receiving veterans benefits or financial aid, and those individuals should confer with the Coordinator of Student Financial Services prior to initiating a withdrawal action. Specific dates for withdrawal will be included in the schedule each quarter.

Adjustment of Curriculum

The following adjustments of a student's curriculum necessitate completion of a Petition for Adjustment of Curriculum form in consultation with the student's academic advisor:

(1) change to a more recent catalog
(2) change of major/minor
(3) change of degree
(4) substitution for required course
(5) waiver of required course

ACADEMIC HONORS AND AWARDS

Convocation

During the commencement period each spring there is a special honors convocation at which time students with outstanding academic achievements are recognized. To be eligible for selection for special convocation recognition students must have thirty quarter hours credit in residence on record at Athens State College.

Dean's List

The Dean's List is published each quarter and includes the names of students who have attained a 3.75 through 4.0 grade point average on at least fifteen quarter hours of course work for a specific term.

Honorable Mention List

The Honorable Mention List is published each quarter and includes the names of the students who have attained a 3.5 through 3.74 grade point average on a least fifteen quarter hours of course work for a specific term.

Degrees with Distinction

The following degrees with distinction are based on **all** college work;

Summa Cum Laude - awarded to the student who has earned a grade point average of 4.0 during his or her college career.

Magna Cum Laude - awarded to the student who has earned a grade point average of 3.75 during his or her college career.

Cum Laude - awarded to the student who has earned a grade point average of 3.5 during his or her college career.

To be eligible for honors, one-half of the total hours applied toward the degree must be regular academic course credit.

SPECIAL PROGRAMS

COOPERATIVE EDUCATION (CP)

The Cooperative Education Program is designed to give students the opportunity to integrate their classroom study with practical experience in their major field. The Alternating Plan requires the student to alternate terms of full-time study with terms of full-time work. The Parallel Plan requires that the student work part-time while attending school full-time.

Eligibility

All students who have chosen a major field of study and enrolled in at least ten (10) quarter hours are eligible to enter the Co-op Program provided they also meet the following criteria:

1. Student must be in good standing and must have an overall GPA of 2.0.
2. Student must intend to fulfill the requirements of the Co-op Program and be a prospective candidate for graduation at Athens State College.

Application

Students should apply as soon as they have been accepted for full-time enrollment by the college.

Procedure

Students who desire to participate in the Cooperative Education Program should complete the following actions:

1. Complete an "Application of Cooperative Education Program" which may be obtained either from the Cooperative Education Office or from academic advisors.
2. Arrange for an interview with the Coordinator of the Co-op Program in regard to the student's career and possible work assignments. If the student is accepted, the Cooperative Education Office will arrange an appropriate training position.

   NOTE: Special arrangements will be made to accommodate situations in which the assigned work may be seasonal.

Parallel Plan

A series of courses in which students are engaged in a work situation and school concurrently, directly related to their academic major. Grade will be based on a combined employer/instructor evaluation of the student's acquired knowledge and skills and on a report submitted by the student. Prerequisites: Courses will be taken in order. To begin the sequence, a student must have an overall GPA of 2.0. The Co-op Program Coordinator will approve continuation of the sequence provided the student maintains a GPA of 2.0.

Alternating Plan

A series of courses in which students are engaged in full-time study for one quarter, then switches to full-time employment for the following

quarter, directly related to their academic major. Grade will be based on a combined employer/instructor evaluation of the student's acquired knowledge and skills and on a report submitted by the student. Prerequisites: A student must have an overall GPA of 2.0. The Co-op Program Coordinator will approve continuation of the sequence provided the student maintains a GPA of 2.0.

The Cooperative Education Office will evaluate work performance based on reports submitted by the employer. In addition, the student must satisfy the requirements of his or her chosen area.

PARALLEL PLAN COURSES

CP 301 Co-op Practicum I. Is the first in a series of courses wherein students work on a part time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of the student productivity and content of a descriptive report submitted by the student. Prerequisite: A minimum grade-point average of 2.0 (C), and approval of the Co-op Education Office.
2 quarter hours

CP 302 Co-op Practicum II. The second in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student. Prerequisites: CP 301, a minimum grade-point average of 2.0 (C), and approval by the Co-op Education Office.
2 quarter hours

CP 303 Co-op Practicum III. The third in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student. Prerequisites: CP 302, a minimum grade-point average of 2.0 (C), and approval by the Co-op Education Office.
2 quarter hours

CP 304 Co-op Practicum IV. The fourth in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student. Prerequisites: CP 303, a minimum grade-point average of 2.0 (C), and approval by the Co-op Education Office.
2 quarter hours

CP 305 Co-op Practicum V. The fifth in a series of courses wherein the students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student. Prerequisites: CP 304, a minimum grade-point

average of 2.0 (C), and approval by the Co-op Education Office.
2 quarter hours

CP 306 Co-op Practicum VI. The last in a series of courses wherein the students work on part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student. Prerequisites: CP 305, a minimum grade-point average of 2.0 (C), and approval by the Co-op Education Office.
2 quarter hours

ALTERNATING PLAN COURSES

CP 401 Work Experience I. The first in a series of courses wherein the students work on a full-time basis in a job related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of an evaluative report (descriptive in nature) submitted by the student.
5 quarter hours

CP 402 Work Experience II. The second in a series of courses wherein the students work on a full-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of an evaluative report (analysis of job and college program) submitted by the student.
5 quarter hours

Career Placement

The Career Planning and Placement Office is a library containing job seeking material, resume writing instructions, helpful hints in interviewing and other related material for job-seekers.

It is the aim of the Career Placement Office to assist the student in making sound career choices and at the same time provide employers with well-trained employees. Job announcements, educational activities and graduate school bulletins are posted for daily viewing. Monthly periodicals are available for up-to-date information in various employment fields. The Career Placement Office is an information center. It does not function as an employment agency. The following kinds of information can be found in the Career Placement Office:

- *Alumni Placement
- *Career Information
- *Career Library
- *Current Job Announcements
- *Graduate School Information
- *Job Information
- *On-Campus Interviews
- *Schedules of recruiters seeking future employees

Students entering the last quarter of academic study should fill out the necessary forms to be considered for career placement assistance.

CONTINUING EDUCATION AND COMMUNITY SERVICES

The Continuing Education and Community Services Program operates as an integral part of Athens State College and is primarily concerned with the special studies aspects of the educational process within the college and the community.

The role of the Continuing Education and Community Services Program is prescribed in Standard Nine of the College Delegate Assembly of the Southern Association of Colleges and Schools.

Basic types of course offerings are (1) non-credit courses, (2) seminars, (3) conferences, (4) institutes, (5) workshops, and (6) CEU courses.*

These programs are developed to meet the following needs: (1) business and professional development, (2) personal enrichment, and (3) leisure activities.

Recommendations for course offerings may be made by students interested in a particular subject, by employers desiring to upgrade their employees' effectiveness, by potential instructors who recognize a need and an interest in a particular subject matter, and course coordinators.

*Athens State College does not accept continuing units (CEU's) for academic credit.

SERVICEMEMBERS OPPORTUNITY COLLEGES GENERAL REGISTRY

Athens State College has been designated as a member of the Servicemembers Opportunity General Registry. Athens State is committed to providing better access to quality programs for military personnel.

Servicemembers Opportunity Colleges (SOC) are sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community and Junior Colleges (AACJC).

REDSTONE ARSENAL EXTENSION

Athens State College operates an extension site on Redstone Arsenal. The Extension Office is located in Building #3222. Day and night classes are held in Building #3222 and 3650. The office is open Monday through Friday from 8:30 a.m. until 4:30 p.m. For the convenience of the Athens State students who attend the extension, admission procedures, counseling, registration and other school business may be taken care of through the Extension Office. Any Athens State College student may take courses at the Redstone Extension, however, active military,

military dependents and civil service employees at Redstone have priority. Other students may take courses on a space available basis.

SMALL BUSINESS DEVELOPMENT CENTER

In cooperation with the Small Business Administration and the University of North Alabama, the Division of Business operates a small business development center. The Center's three main purposes are: (1) to help reduce the failure rate of small businesses, (2) to assist small businesses in improving their ability to earn profit, and (3) to advise potential small business owners of the feasibility of a business venture prior to investing risk capital.

Through consultation, continuing education workshops, and information transfer, the center strives to assist local business owners. Faculty members, local business leaders, and Athens State College business majors serve as consultants to assist in almost every aspect of business operation. All of these services are offered free of charge to the residents of the Limestone/Morgan County area.

ATHENS STATE COLLEGE CENTER FOR ECONOMIC EDUCATION

Athens State College operates and maintains a Center for Economic Education for the prupose of inproving the level of economic understanding in the North Alabama area. As a network member of the Alabama Council on Economic Education and as an affiliated member of the Joint Council on Economic Education, the ASC center sponsors and conducts in-service training programs for elementary and secondary teachers employed by local school systems. In addition, it serves as a repository for materials related to economics and economic instruction and assists local school districts that desire to integrate the DEEP, Developmental Economic Education Program, into their schools. Dr. James F. Haynes, associate professor of economics, serves as the Director of the ASC center, which is located in room 301 of Founders Hall.

ACADEMIC DIVISIONS

DIVISION OF BUSINESS

James F. Haynes, Ph.D., Division Head

Students electing a major in the Division of Business may earn a Bachelor of Science degree and may major in Accounting, Business Administration, Office Administration-General Business, Technical Business, or Fire Services Management.

The Business Division and the Division of Behavioral Science offer an interdisciplinary major leading to a Bachelor of Science degree in Personnel Psychology. (Refer to page 135 of this catalog for the program description.)

The Division of Business in cooperation with the Division of Science and Technology also offers a Technical Management degree. (Refer to page 180 of this catalog for the program description.)

PRE-LAW STUDENTS: There is no prescribed curriculum for admission to law school. The student should consult the catalog of the law school he or she plans to attend for specific admission requirements. For anticipated employment in the private sector, the student is advised to major in Business Administration, Accounting, or Economics. For anticipated public employment, the student is advised to major in History, Behavioral Science, Political Science, or Social Science.

ACCOUNTING

The aim of the major in Accounting is to prepare students for a wide variety of careers in professional accounting, including public accounting, industrial accounting, internal auditing, and government service. An objective of the program is to qualify students to sit for the various professional entry examinations, particularly the Certified Public Accountant examination.

Bachelor of Science - Accounting

Program components for the Bachelor of Science in Accounting include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. At least seventy quarter hours upper division courses are required. The lower division business courses that should be completed prior to entering Athens State College are ten quarter hours in Principles of Economics and ten quarter hours of Principles of Accounting.
3. Five quarter hours in computer science.

Upper Division - Business Core

BU 305 Statistical Methods of Business	5 quarter hours
BU 311, 312 and 313 Legal Studies in Business I, II, III	15 quarter hours
EC 321 Money and Banking	5 quarter hours
EC 415 Managerial Finance	5 quarter hours
MK 331 Marketing Principles	5 quarter hours
MG 346 Management and Organization	5 quarter hours
MG 420 Strategic Management	5 quarter hours

Accounting Core

AC 321, 322 Intermediate Accounting I & II	10 quarter hours
AC 361 Federal Tax Accounting I	5 quarter hours
AC 371 Cost Accounting I	5 quarter hours
AC 431 Advanced Accounting I	5 quarter hours
AC 440 Auditing	5 quarter hours

Certificate in Accounting

There is a growing demand for accountants in private industry and government. Many graduates, finding that their undergraduate majors did not give them the career mobility they had hoped for, turn to accounting as an alternative career choice. Rather than requiring such students to pursue a second undergraduate degree, the Division of Business Administration and Accounting offers a certificate in accounting which gives the students the requisite accounting background that will allow such students to reach their career goals with the minimum of structure. A further advantage to students holding accounting certificates is that approval has been obtained from the Alabama Board of Accountancy permitting them to sit for the CPA examination.

The program of study for the Accounting Certificate includes:

Entrance Requirements:

Four-year degree from an accredited institution.
Principles of Economics I and II
Principles of Accounting I and II

Curriculum:

BU 311, 312 and 313 Legal Studies in Business I, II, III	15 quarter hours
AC 321, 322 Intermediate Accounting I & II	10 quarter hours
AC 361 Federal Tax Accounting I	5 quarter hours
AC 371 Cost Accounting I	5 quarter hours
AC 431 Advanced Accounting I	5 quarter hours
AC 440 Auditing	5 quarter hours

Accounting (AC) Courses

AC 300 Basic Accounting. A survey of accounting principles and practices for the non-accounting major. Points of emphasis include financial statements, budget, and basic cost accounting concepts. 5 quarter hours

AC 314 Governmental Accounting. A study of accounting and budgetary procedures for units and agencies of federal, state and municipal government. 5 quarter hours.

AC 321 Intermediate Accounting I. A survey of the financial reporting process and analysis of the accounting theory relevant to the major asset categories. Prerequisite: Principles of Accounting I & II or equivalent. 5 quarter hours

AC 322 Intermediate Accounting II. A continuation of balance sheet analysis, culminating with a review of special purpose statements, flow of funds, price-level adjusted statements, and earnings per share. Prerequisite: AC 321 5 quarter hours

AC 361 Federal Tax Accounting I. An analysis of the federal income tax laws as it applies to individuals, emphasizing the provisions applicable to the sole proprietor. Prerequisite: Principles of Accounting I & II 5 quarter hours

AC 371 Cost Accounting I. An introduction to the preparation and interpretation of cost accounting data to be used by management in the twin entrepreneurial functions of planning and control. Job order, process and standard cost systems will be studied in depth. Prerequisite: AC 321 5 quarter hours

AC 400 Decision Accounting. A management-based accounting course designed specifically for business administration, computer science, and other technically oriented major programs of study. Topics covered include financial ratio analysis, cost-volume-profit relationships, budgeting, analysis of cash flow, and specific cost accounting concepts. Emphasis is on analysis and interpretation of financial data as opposed to compilation. Prerequisite: Basic Accounting or Principles of Accounting I. 5 quarter hours

AC 431 Advanced Accounting I. A study of the application of accounting theory to the complexities of the partnership and corporate forms of business organization, emphasizing the problems associated with organizational change. Prerequisite: AC 322 5 quarter hours

AC 440 Auditing. Auditing theory and practice, with emphasis given to the function of the audit in the certification of financial statements by an independent auditor. Prerequisite: AC 322. 5 quarter hours

AC 441, 442, 443, 444 Special Topics in Accounting. To be offered on occasion of student demand or need. 1-5 quarter hours

AC 460 Directed Study/Research in Accounting. To be offered on occasion of student demand or need. 1-5 quarter hours

AC 461 Federal Tax Accounting II. The application of the federal income tax law as it applies to partnerships and corporations, with emphasis on the differences which exist between financial and tax accounting. Prerequisites: AC 321 and AC 361. 5 quarter hours

AC 471 Cost Accounting II. A study of the role of cost accounting systems in management decision-making and control. Emphasis will be placed on analytical techniques used by the cost accountant in interpreting cost data to management. Prerequisite: 15 quarter hours of accounting. 5 quarter hours

AC 480 Honors Practicum in Small Business Consulting and Research. For Course description see BU 480.

BUSINESS ADMINISTRATION

The objective of the major in Business Administration is to provide students with a comprehensive business education which will prepare them to enter managerial employment and to assist in the development of individuals who hold those positions. The major encompasses the traditional business curriculum which includes coursework in accounting, economics, finance, management, marketing, and the legal environment of business. The requirements for the business administration major, in addition to the general education requirements for all degree programs, include ten quarter hours in principles of accounting and ten quarter hours in principles of economics, five quarter hours in computer science, the completion of a forty-five quarter hour upper-division business core, and an additional twenty-five quarter hours of upper-level business electives. Most students elect to pursue a broad approach to elective courses within the business curriculum and have no specific area of concentration. A student may, however, elect to pursue an area of concentration by taking twenty of the required twenty-five quarter hours of upper-level business elective courses in a specific area. Areas of concentration are offered in accounting, economics, management and marketing.

Bachelor of Science - Business Administration

Program components for the Bachelor of Science in Business Administration include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Ten quarter hours in principles of accounting and ten quarter hours in principles of economics.
3. Five quarter hours in computer science.
4. At least seventy quarter hours of 300/400 level credit in business administration which must include the following courses or their equivalent.

Upper-Division Business Core

BU 305 Statistical Methods of Business	5 quarter hours
BU 311, 312 Legal Studies in Business I & II	10 quarter hours
EC 321 Money and Banking	5 quarter hours
EC 415 Managerial Finance	5 quarter hours
MK 331 Marketing Principles	5 quarter hours
MK 433 Marketing Strategies and Policies	5 quarter hours
MG 346 Management and Organization	5 quarter hours
MG 420 Strategic Management	5 quarter hours
Upper Division Business Electives	25 quarter hours

Please note: It is the student's responsibility to comply with the Business Division's course work requirements. Under no circumstances are alterations or substitutions in required course work permitted without prior approval of the business faculty members in the subject area concerned, the student's faculty advisor, the Division Head and the Academic Dean.

GENERAL BUSINESS (BU) COURSES

BU 301 Microcomputer Applications for Business. An examination of the many uses for microcomputers in the modern business setting. Emphasis is given to a "hands on approach" method of assessing the usage of personal computers for preparing spreadsheets, managing files, word processing, and graphics. 5 quarter hours

BU 304 Business Communications. A study of the principles and types of business communications. Instruction is given in the style, structure, and aims of written business correspondence, memoranda, and reports. 5 quarter hours

BU 305 Statistical Methods of Business. Introduction to the descriptive inductive uses of organized data. Coverage will include sampling theory, tests of hypothesis, probability theory, and time series analysis. Prerequisite: College Algebra or General Mathematics. 5 quarter hours

BU 311 Legal Studies in Business I. An in-depth case study of the legal environment of business with emphasis on the law of contracts. 5 quarter hours

BU 312 Legal Studies in Business II. Continuation of BU 311 with case study emphasis on property, sales, bailments, and an in-depth study of negotiable instruments under the Uniform Commercial Code. 5 quarter hours

BU 313 Legal Studies in Business III. An extension of Legal Studies I and II which examines the topics of creation, powers, duties and termination of partnerships and corporations; bankruptcy and Article 9 of the Uniform Commercial Code. The material presented is especially helpful in assisting accounting majors in preparing for the legal aspects portion of the Alabama CPA exam. Prerequisite: Legal Studies I and II. 5 quarter hours

BU 355 General Insurance. A study of fundamental principles and uses of various types of insurance: life, fire, automobile, homeowners, and other casualty coverages. 5 quarter hours

BU 356 Real Estate. A course designed to give students a broad understanding of the principles of real estate. Instruction includes historical background, freehold estates, leasehold estates, deeds, transferring of interests, financing, appraising and the Alabama Real Estate License Law. Approved by the Alabama Real Estate Commission as a pre-license course. 5 quarter hours

BU 358 Public Administration. Acquaints the student with the basic principles of public administration and the structure and programs of the federal bureaucracy. Public administrators are invited to relate their experiences and problems at a few sessions. Prerequisite: American Government. Also listed as PO 358. 5 quarter hours

BU 368 Industrial and Personnel Psychology. The application of psychology to industrial organization. Areas of consideration include morale and group processes, supervisory leadership, selection and placement, training, motivation, fatigue, accidents, interviewing, and industrial counseling. Also listed as PS 368.

5 quarter hours

BU 394 Introduction to Procurement and Logistics Management. An introduction to that aspect of management science concerned with the procurement, maintenance, and transportation of government material, personnel, and facilities.

5 quarter hours

BU 395 Procurement Price and Cost Analysis. An examination of the role of the government contracting officer in the acquisition process. Emphasis is given to considering pricing practices and theories and to assessing the government's procedures and methods of evaluating pricing and costing activity.

5 quarter hours

BU 396 Government Contract Law. An examination of the laws and regulations which have been developed in the area of acquisition for the government or in the private sector when contracting with the government.

5 quarter hours

BU 397 Procurement Contract Negotiation. An examination of the concepts and techniques of negotiation. Topics covered include strategies and tactics of contract negotiation, preparation for sound negotiation, organization and operation of a procurement team, the relative positions of strength required for successful negotiation, and limitations as imposed by law. In addition to class lectures, the students will participate in mock negotiations using case studies.

5 quarter hours

BU 398 Federal Contract Administration. An examination of the management of government contracts in the post-award phase. The content provides insight into the variety of administrative matters that arise during the life of a contract. Emphasis is given to a consideration of the rights and responsibilities of the government and contractor.

5 quarter hours

BU 399 Government Acquisition and Contracting Executive Seminar. A seminar course which examines the totality of contract management activity and its affect on the cost-effectiveness of the procurement process. The case study approach is emphasized.

5 quarter hours

BU 405 Quantitative Business Analysis. An examination of the major quantitative assessment tools available to modern managers to

assist them in making valid decisions. Classroom instruction will be reinforced through computed simulation exercises. Prerequisite: BU 305.

5 quarter hours

BU 417 Advanced Secretarial Procedures. An in-depth analysis of the activities and responsibilities of the administrative secretary. A major emphasis is on the concepts and process of supervising secretarial procedures. 5 quarter hours

BU 418 Seminar in Current Problems and Issues of Administrative Office Management. A seminar-type class which provides an opportunity for selected students to increase their understanding of current problems affecting administrative office practice and procedures. At scheduled meetings students will discuss relative contemporary issues, and will propose and evaluate alternative methods for improving the process of office administration.

5 quarter hours

BU 426 Government and Business. A study of the effect of the governmental regulations on the free enterprise system and how public policy relates to monopolies, pricing, and competition. Prerequisite: Legal Studies in Business. 5 quarter hours

BU 435 Personal Finance and Investments. A review of consumer money management problems, choices and decision-making. Topics such as consumer credit, budgeting, home ownership vs. renting, retirement planning, insurance and suitable investment programs will be covered in the course. 5 quarter hours

BU 441, 442, 443, 444 Special Topics in Business Administration. To be offered on occasion of student demand or need.

1-5 quarter hours

BU 460 Directed Study/Research in Business. A course designed to allow students an opportunity to perform research or directed studies. This course is offered at the discretion of the professor with approval by the Division Head. 1-5 quarter hours

BU 480 Honors Practicum in Small Business Consulting and Research. Field work involving the application of accounting, business, economics, management, and marketing concepts to the operation of a small business enterprise. Prerequisite: Senior standing and twenty-five hours of business core courses completed. Students will be invited to participate in this program by the faculty members of the Business Division and will work through the Athens State College Small Business Development Center. 5 quarter hours

ECONOMICS (EC) COURSES

EC 310 Basic Economics. A one-quarter course that is a survey of economic principles. The course content is structured to meet the

needs of those students who plan to take only one course in economics as well as students who plan to use the concepts presented as a prerequisite for further study in the areas of economics or business administration. Also listed as SS 310.
5 quarter hours

EC 311 Economic Geography. Analysis of the origins, nature and distributions of man's economic activities over the world. Elementary models of economic patterns, processes, and relationships in geographic space are stressed and the relation of these factors to the present position of the nations of the world is emphasized. Also listed as GO 311. 5 quarter hours

EC 319 Introduction to International Commerce. Examines the international economic system and the challenges faced by multinational corporations in the conduct of international business. Special attention is given to the mechanics of importing and exporting, international finance, and private international law. Also listed as PO 319. 5 quarter hours

EC 321 Money and Banking. A study of how money, credit and interest rates affect the level of employment, production, and prices in the economy. Topics of study will include the Federal Reserve System, the operations of commercial banks, credit controls, the theory of income determination, as well as recent trends in banking. Prerequisite: Principles of Economics. Also listed as SS 321.
5 quarter hours

EC 322 Macroeconomics for Management. A one-quarter course that examines the determinants of aggregate economic activity. The emphasis of the course is on the impact of macroeconomics on managerial decision making. Also listed as SS 322, MG 322.
5 quarter hours

EC 323 The Economics of the Firm. A one-quarter course that analyzes the behavior of individual firms and households carrying on production or consumption. The material provides a practical examination of important microeconomic principles behind the operation of any modern business and explains the analytical tools used in making effective management decisions. Also listed as SS 323, MG 323. 5 quarter hours

EC 348 Manpower and Labor Economics in the U.S. An introduction to labor in the economy and the relationships that exist between workers, management, labor organizations, and public policy. Specific subjects include: the history of the labor movement in the United States, the development of collective bargaining law, collective bargaining, wage analysis, and federal manpower programs. Major emphasis is on current labor issues. Also listed as MG 348. 5 quarter hours

EC 415 Managerial Finance. A study of the art of money capital management on the level of the firm in an enterprise economy. Topics covered include analysis of financial statements, investment decision making, calculation of the firm's cost of capital, and other related topics such as mergers and dividend policies. Prerequisites: Principles of Accounting and Principles of Economics.

5 quarter hours

EC 441, 442, 443, 444 Special Topics in Economics. To be offered on occasion of student demand or need.

1-5 quarter hours

EC 460 Directed Study/Research in Economics. A course designed to allow students an opportunity to perform research or directed studies. The course is offered at the discretion of the professor with approval of the Division Head.

1-5 quarter hours

EC 480 Honors Practicum in Small Business Consulting and Research. For course description see BU 480.

5 quarter hours

FIRE SERVICES MANAGEMENT (FSM) COURSES

FSM 314 Legal Studies in Fire Services Management. An examination of the laws, rules, and regulations that have general applicability to fire service management. Topics covered include fire codes and ordinances, legal responsibilities of fire service agencies, and enforcement procedures and fire service administrative powers.

5 quarter hours

FSM 346 Management and Organization. The elements and theories underlying management practice in the organization. Also listed as MG 346.

5 quarter hours

FSM 349 Human Resources Management. Principles and practices of personnel administration. Special attention is given to employment practices, wages, hours, union and labor legislation. Also listed as MG 349.

5 quarter hours

FSM 375 Organizational Behavior. A consideration of human behavior in organizational settings with emphasis on individual processes, group processes and organizational structure and functions. Also listed as PS 375 and MG 375.

5 quarter hours

FSM 377 Managing Public Enterprise. An examination of the major issues and concepts of managing a public institution. Topics include the theory of fiscal management, budgets and budget controls, the political and legal foundations of public enterprise, community

relations, public information systems and reports, and public employee rights and responsibilities. Also listed as MG 377.

5 quarter hours

FSM 410 Labor Law and Legislation. A study of contemporary law affecting employees, employers, and labor organizations. Major emphasis is on equal employment opportunity laws and recent interpretations by administrative tribunals and courts. Also listed as MG 410.

5 quarter hours

FSM 460 Directed Study/Research in Fire Services Management. Opportunity for majors in Fire Services Management to perform research or directed study into some aspect of fire service.

1-5 quarter hours

FSM 485 Seminar in Current Issues and Problems of Fire Services Management. A seminar course which examines contemporary issues affecting management practices in all aspects of fire service. This course is only open to students majoring in Fire Services Management.

5 quarter hours

FSM 490 Practicum in Fire Services Management. Field work involving the application of management concepts to the operation of an institution involved with any aspect of fire science. This course is only open to students majoring in Fire Services Management.

5 quarter hours

MANAGEMENT (MG) COURSES

MG 310 Administrative Office Management. A study of the operational and managerial functions in the office including planning office services, human relations, flow and paper work, space utilization, decision making and records management.

5 quarter hours

MG 320 First-Line Supervision. Instruction designed to assist individuals who hold, or will hold a supervisory position, to broaden their understanding of a supervisor's role as a manager. An examination of recent changes in management philosophy and action, consideration of different approaches to on-the-job supervisory practices, and a discussion of managerial decision making and authority will be included.

5 quarter hours

MG 322 Macroeconomics for Management. A one-quarter course that examines the determinants of aggregate economic activity. The emphasis of the course is on the impact of macroeconomics on managerial decision making. Also listed as SS 322 and EC 322.

5 quarter hours

MG 323 The Economics of the Firm. A one-quarter course that analyzes the behavior of individual firms and households carrying on production or consumption. The material provides a practical examination of important microeconomic principles behind the operation of any modern business and explains the analytical tools used in making effective management decisions. Also listed as SS 323 and EC 323.

5 quarter hours

MG 346 Management and Organization. The elements and theories underlying management practice in the organization.

5 quarter hours

MG 348 Manpower and Labor Economics in the U.S. An introduction to labor in our economy and the relationships that exist between labor in our economy and the relationships that exist between workers, management, labor organizations, and public policy. Specific subjects include: the history of the labor movement in the United States, the development of collective bargaining law, collective bargaining, wage analysis, and federal manpower programs. Major emphasis is on current issues. Also listed as EC 348.

5 quarter hours

MG 349 Human Resources Management. Principles and practices of personnel administration. Special attention is given to employment practices, wages, hours, union and labor legislation.

5 quarter hours

MG 375 Organizational Behavior. A consideration of human behavior in organizational settings with emphasis on individual processes, group processes and organizational structure and functions. Also listed as PS 375.

5 quarter hours

MG 377 Managing Public Enterprise. An examination of the major issues and concepts of managing a public institution. Topics include the theory of fiscal management, budgets and budget controls, the political and legal foundations of public enterprise, community relations, public information systems and reports, and public employee rights and responsibilities. Also listed as FSM 377.

5 quarter hours

MG 410 Labor Law and Legislation. A study of contemporary law affecting employees, employers, and labor organizations. Major emphasis is on equal employment opportunity laws and recent interpretations by administrative tribunals and courts.

5 quarter hours

MG 416 New Enterprises and Small Businesses. An analysis of procedures required to initiate enterprises or establish small businesses. Prerequisite: Management and Organization.

5 quarter hours

MG 420 Strategic Management. Interrelationships of various business functions from the viewpoint of middle management's decision process. Reading case analysis. Students should schedule this course in one of the last two quarters of their degree program. Prerequisites: 15 quarter hours of business core courses completed including MG 346 Management and Organization. 5 quarter hours

MG 441, 442, 443, 444 Special topics in Management. To re offered on occasion of student demand or need.

1-5 quarter hours

MG 460 Directed Study/Research in Management. To be offered on occasion of student demand or need.

1-5 quarter hours

MG 480 Honors Practicum in Small Business Consulting and Research. For course description see BU 480.

MARKETING (MK) COURSES

MK 331 Marketing Principles. A study of the forces operating, institutions employed and methods followed in the flow of goods and services from production to consumption. Prerequisite: Principles of Economics. 5 quarter hours

MK 333 Advertising and Promotional Strategies. A study of the principles of advertising, types of advertising media, and analyzing problems of advertising encountered in business. Particular attention is given to the small advertiser. Prerequisite: Marketing Principles. 5 quarter hours

MK 334 Sales Management. A course designed to familiarize students with the problems faced by sales managers, to present the principles of effective sales management, and to develop students' ability to critically analyze and suggest solutions to problems of sales management. Prerequisite: Marketing Principles.

5 quarter hours

MK 336 Consumer Behavior. A study of the buying habits and motives involved in the purchase of economic goods and services. Emphasis is on the decision process that precede and determine consumer behavior. Prerequisite: Marketing Principles. 5 quarter hours

MK 431 Marketing Research. A study of research methods and procedures as they apply to marketing operations. This course includes the information sources available to marketing researchers and the design and analysis of research projects concerned with obtaining primary information. Prerequisites: Marketing Principles and Statistical Methods of Business.

5 quarter hours

MK 432 Retailing. Principles and methods of store location and layout, promotion buying, pricing, personnel management, credit, and

stock control. Prerequisite: Marketing Principles .5 quarter hours

MK 433 Marketing Strategies and Policies. Various policies and problems requiring decision by marketing management in areas of product policy, distribution policy, promotion policy, and price policy. Prerequisite: Marketing Principles. 5 quarter hours

MK 441, 442, 443, 444 Special Topics in Marketing. To be offered on occasion of student demand or need.

1-5 quarter hours

MK 460 Directed Study/Research in Marketing. A course designed to allow students an opportunity to perform research or directed studies in marketing. The course is offered at the discretion of the faculty member with approval by the division head.

1 - 5 quarter hours

MK 480 Honors Practicum in Small Business Consulting and Research. For course description see BU 480.

Bachelor of Science - Fire Services Management

Athens State College offers to individuals either employed in the fire service or those who desire employment in some aspect of fire service, a unique degree option in Fire Services Management. This specialized Bachelor of Science Degree is primarily designed to serve the graduates of Alabama's two-year colleges who have completed the Associates in Applied Science in Fire Science. The curriculum in this program is management-based and reflects a joint planning effort involving the Alabama Technical and Community Colleges System, The Alabama State Fire College, and Athens State College. The person who seeks this degree should complete the requirements described below in addition to regular academic admission requirements.

Program components for the Bachelor of Science in Fire Services Management include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Associates in Applied Science in Fire Science or equivalent.
3. Five quarter hours in Computer Science.

Fire Services Management Core Courses:

AC 400 Decision Accounting	5 quarter hours
FSM 314 Legal Studies in Fire Services Management	5 quarter hours
FSM 346 Management and Organization	5 quarter hours
FSM 349 Human Resources Management	5 quarter hours
FSM 375 Organizational Behavior	5 quarter hours
FSM 377 Managing Public Enterprise	5 quarter hours
FSM 410 Labor Law and Legislation	5 quarter hours

FSM 460 Directed Study in Fire Services Management 1-5 quarter hours
FSM 485 Seminar in Current Issues and Problems in Fire Services Management 5 quarter hours
FSM 490 Practicum in Fire Services Management 5 quarter hours

OFFICE ADMINISTRATION - GENERAL BUSINESS

Bachelor of Science - Office Administration - General Business

Athens State College offers to office administration personnel including the graduates of technical schools or colleges, the opportunity to complete a baccalaureate degree in Office Administration - General Business. The person who seeks the Bachelor of Science in Office Administration - General Business is to complete the requirements described below in addition to regular academic general requirements.

Program components for the Bachelor of Science in Office Administration - General Business include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Office administration instruction at a technical school or college consisting of six or more quarters,

   or

   Six years documented, successful work experience in the area of office administration.
3. Five quarter hours in computer science.

Business Core Courses:

AC 300 Basic Accounting (or Principles of Accounting I) 5 quarter hours
EC 310 Basic Economics (or Principles of Economics I or II) 5 quarter hours
BU 311 Legal Studies in Business I 5 quarter hours
MK 331 Marketing Principles 5 quarter hours
MG 346 Management and Organization 5 quarter hours

Office Administration Courses:

BU 417 Advanced Secretarial Procedures 5 quarter hours
BU 418 Seminar in Current Problems and Issues of Administrative Office Management 5 quarter hours
MG 310 Administrative Office Management 5 quarter hours
Upper-Division Business Electives 20 quarter hours

Business coursework **must** include at least forty quarter hours at the 300/400 level.

TECHNICAL BUSINESS

Bachelor of Science - Technical Business

Athens State College offers to technical personnel including the graduates of technical schools or colleges the opportunity to complete a baccalaureate degree in Technical Business. The person who seeks the Bachelor of Science in Technical Business is to complete the requirements described below in addition to regular academic admission requirements.

Program components for the Bachelor of Science in Technical Business include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Technical training: Six or more quarters of instruction in a technical school or college.

   or

   Six years documented, successful work experience in a trade documented by successful completion of the NOCTI

   or

   A two year professional program in health sciences as validated by state or national licensure

   or

   A two year professional program in fine arts.
3. Five quarter hours in computer science.
4. The student is advised to complete prerequisite lower division courses at a junior college prior to entering Athens State College. A student who has completed a six quarter program of technical training may be admitted to the College as a special student and by special transient study arrangement attend a junior college to complete prerequisite courses. The lower division courses that should be completed prior to entering Athens State College are ten quarter hours of Freshmen English and five quarter hours of Mathematics.

Business Core Courses:

AC 300 Basic Accounting (or Principles of Accounting I)	5 quarter hours
EC 310 Basic Economics (or Principles of Economics I or II)	5 quarter hours
BU 304 Business Communications	5 quarter hours
BU 311 Legal Studies in Business I	5 quarter hours
EC 321 Money and Banking	5 quarter hours
MK 331 Marketing Principles	5 quarter hours
MG 346 Management and Organization	5 quarter hours
Upper-Division Business Electives	25 quarter hours

Business coursework must include at least forty quarter hours at the 300/400 level.

Concentration in Procurement and Acquisition Management

Athens State College offers a specialized area of concentration in procurement and acquisition management to those students who elect to major in business administration. Program components for the Bachelor of Science in Business Administration with a Concentration in Procurement and Acquisition Management include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Five quarter hours in Computer Science.
3. The required Business Administration Core of forty-five hours of upper-level coursework.
4. Thirty quarter hours of specific coursework in Procurement as follows or their equivalent.

BU 394 Introduction to Procurement and Logistics and Management	5 quarter hours
BU 395 Procurement Price and Cost Analysis	5 quarter hours
BU 396 Government Contract Law	5 quarter hours
BU 397 Procurement Contract Negotiation	5 quarter hours
BU 398 Federal Contract Administration	5 quarter hours
BU 399 Government Acquisition and Contracting Executive Seminar	5 quarter hours

Business Administration Minor

In order to better serve the entire student body of Athens State College, the Division of Business Administration and Accounting makes available to those students majoring in other disciplines, a structured minor in the area of Business Administration.

The student seeking a minor in Business Administration must complete thirty quarter hours of Business Administration courses to include the following:

AC 300 Basic Accounting (or Principles of Accounting I)	5 quarter hours
EC 310 Basic Economics (or Principles of Economics I or II)	5 quarter hours
BU 311 Legal Studies in Business I	5 quarter hours
MK 331 Marketing Principles	5 quarter hours
MG 346 Management and Organization	5 quarter hours
Upper-Division Business Elective	5 quarter hours

Computer Science Minor
for
Business Administration and Accounting Majors

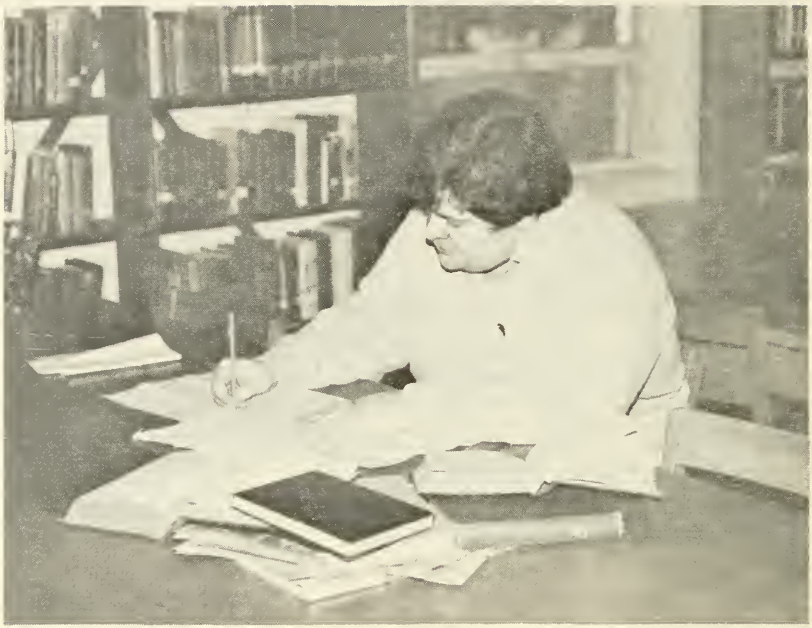
The Division of Business Administration and Accounting faculty has approved an optional minor in Computer Science. The structured minor is comprised of the following courses:

CS 300 Introduction to Business Programming	5 quarter hours
CS 320 COBOL Programming	5 quarter hours
CS 420 Business Programming Applications	5 quarter hours
CS 440 Database Management	5 quarter hours
Approved upper-level Computer Science Electives	15 quarter hours

At least 15 quarter hours must be taken at Athens State College.

GENERAL STUDIES PROGRAM

The General Studies Program is desiprovide maximum flexibility in course selection for students with specific objectives in mind and for students who seek personal enrichment or fulfillment through collegiate study. While no specified major courses are required, the student must comply with all degree requirements for the Bachelor of Science Degree and satisfy all applicable general college requirements and conditions for graduation (page 26).



DIVISION OF EDUCATION

Robert H. Murphree, Ed.D., Division Head

The Division of Education offers courses which meet the requirements of the State Department of Education for Class B Teacher Certification of the professional programs in Early Childhood Education (N-3), Elementary Education (1-6), Middle School Education (4-8), High School Education (7-12), Physical Education (N-12), Special Education (N-12), Trade and Industrial Education, and Vocational Education. These programs are approved by the Alabama State Board of Education and the Southern Association of Colleges and Schools. Because of the nature of the Teacher Education Program and because of state certification changes that may occur, the Division of Education reserves the right to change the requirements in the Teacher Education Program at any time.

TEACHER EDUCATION PROGRAM

Admission

Prior to enrolling in certain professional education courses other than ED 300 a student must be admitted to the Teacher Education Program. A student wishing to enter the Teacher Education Program must meet the following requirements:

1. Students who have earned collegiate credit before June 1, 1977 will be exempted from the ACT or SAT and the language proficiency test.
2. Those students not covered in #1 will present evidence of an American College Test (ACT) score of at least 16 or an SAT score of at least 745. (In the event an applicant did not take the ACT or SAT prior to entering college or the score was unacceptable, arrangements must be made with a high school to fulfill this requirement. This is the responsibility of the applicant. A score is valid and acceptable for five years following the date of testing.)
3. Complete Education 300, Foundations of Education, or the equivalent with a grade of at least "C".
4. Demonstrate proficiency on a state-approved English Competency examination.
5. Receive recommendation from the interview screening committee which reviews the applicant's personal traits, experiences, interests, and aptitudes as these relate to the requirements for successful teaching.
6. Present documentation of a minimum grade point average of at least 2.2 on a 4.0 scale on all college work attempted.
7. Submit documentation of a current, negative chest x-ray or tuberculosis skin test.
8. Complete the written application for admission to the Teacher Education Program and submit that application to the Education Division. This application is to be made during the first quarter of study at Athens State College. (The application forms are available in the Office of the Education Division.)

Retention

1. A student may be dropped from the Teacher Education Program for failure to maintain the standards of performance required for admission to the program. Such students may be placed on probation. While on probation the student will be under continuous supervision and evaluation in an effort to eliminate his or her deficiencies.
2. A student must maintain a current validation of a negative chest x-ray or tuberculosis skin test throughout the Teacher Education Program.

Completion

In addition to the specified courses in each approved program, the student must complete the following requirements:

1. Maintain an over-all grade point average of 2.2.
2. Maintain a minimum grade of "C" in each professional course.
3. Complete the Teacher Education Program within four years from the date of admission. (A student may apply to the Education Division for consideration for reinstatement to the program.)

Courses That Require Admission to the Teacher Education Program

Early Childhood Education

ED 323 Principles and Practices of Reading
ED 413 Reading for the Young Child
ED 416 Curriculum in Early Childhood Education
ED 423 Materials and Methods of Social Studies
ED 305 Media for Teachers
ED 361 Measurement and Management
ED 480 Internship in Early Childhood Education

Elementary Education

ED 423 Materials and Methods of Social Studies
ED 424 Materials and Methods of Teaching Math in Intermediate Grades
ED 305 Media for Teachers
MU 451 Materials and Methods of Teaching Music
ED 361 Measurement and Management
ED 323 Principles and Practices of Reading
ED 416 Teaching Reading to the Young Child
ED 482 Internship in Elementary Education

Learning Disabled Education

ED 324 Teaching Math to the Young Child
ED 305 Media
ED 424 Materials and Methods of Teaching Math in Intermediate Grades
ED 333 Teaching Reading in the Content Area
PS 461 Tests and Measurements
ED 488 Internship in N-12

Language Arts, English, Comprehensive Science, Biology, Chemistry, Social Science, History, Political Science, Psychology, Math

ED 431 Materials and Methods of Teaching Middle/High School
ED 303 Media for Teachers
ED 333 Reading in the Content Area

ED 361 Measurement and Management
ED 486 Internship in High School

Physical Education

ED 305 Media for Teachers
PE 430 Materials and Methods for Teaching P.E. in the Elementary School
PE 440 Materials and Methods for Teaching P.E. in the High School
ED 333 Reading in the Content Area
PE 401 Tests and Measurements in P.E.
ED 488 Internship in N-12

Trade and Industry

VE 432 Methods of Teaching Vocational Education
VE 433 Materials of Teaching Vocational Education
ED 333 Reading in the Content Area
VE 440 Testing and Evaluating in Vocational Education
ED 486 Internship in High School

Internship

1. Students **must** apply to the Director of Internship on or before the following dates: August 1 for Fall Internship, November 1, for Winter Internship, and February 1 for Spring Internship. (The application forms are available in the office of the Education Division.) The internship programs are open to seniors who have completed the professional education courses in their special fields.
2. During the quarter of internship, no other courses should be taken. It is therefore recommended, in planning hours toward graduation, that the individual expect to take only fifteen quarter hours of internship in that quarter.

The State Board of Education sometimes revises the requirements governing certification in the State of Alabama. Therefore, requirements for degrees leading to certification are subject to change from those published in this Catalog. The student is advised to secure a correct curriculum guide from the Division of Education Office to insure that both degree requirements and certification requirements are met.

Certification

Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities and colleges cannot issue a professional certificate. However, in order to be certified at the professional "B" level, a student must complete an appropriate course of study at a college or university which has been approved by the State Board of Education. When a student completes the course of study, the institution recommends to the State Department of Education that the appropriate certificate be awarded. It is the responsibility of the student to complete the steps for certification recommendation from Athens State College which are as follows:

1. Satisfy the requirements of the Teacher Education Program.
2. Obtain application for certification from the Certification Officer.
3. Satisfactorily complete the Alabama Initial Teacher Certification test.
4. Provide a $10.00* money order for every major area of certification (*Amount subject to state modification; make money order payable to the State Department of Education in Montgomery).
5. Provide the Certification Officer with one copy of an official transcript from each college attended.

Approved Majors

Biology
Chemistry
Comprehensive Science
Early Childhood Education
Elementary Education
English
History
Language Arts
Mathematics
Physical Education
Political Science
Psychology
Social Science
Special Education (Learning Disabilities)
Trade and Industrial Education - Teacher/Coordinator
Vocational Education - Post Secondary

Post Graduate Teacher Education Program Planning

A student who holds a baccalaureate degree may complete certification requirements at Athens State College. In general, this student must meet the same requirements for admission to and exit from the program as a regular undergraduate student. There are several classifications which may be appropriate for this student; consequently, the student must consult the Head of the Division of Education to have a program plan approved before enrolling for a course.

A student who holds an Alabama teacher's certificate may seek to change the area of endorsement. The Head of the Division of Education will assist the student in program planning to meet the State Department of Education requirements.

Job Placement

It is recommended that each student place a resume on file with the Athens State College Placement Office prior to graduation.

EARLY CHILDHOOD EDUCATION

This program is designed for students interested in the education of young children. The focus is upon the nature of learning and development of children ages four through eight. This phase of the teacher preparation program is designed to assist the student in acquiring knowledge, understanding and skills deemed essential to: (1) teach in kindergarten and primary grades, (2) administer and implement pre-school or other early childhood programs, or (3) to pursue graduate study in early childhood and other related specializations.

Bachelor of Science in Education - Early Education Major

Program components for the Bachelor of Science in Education with a major in Early Childhood Education include:

1. General and Professional education requirements for the degree and applicable general college requirements and conditions for graduation.
2. General Education requirements include:

English Composition	10 quarter hours
Literature	10 quarter hours
Speech	5 quarter hours
General Psychology	5 quarter hours
Mathematics	5 quarter hours
Science (To include both Biological **and** Physical)	20 quarter hours
Economics	5 quarter hours
American History	5 quarter hours
Government	5 quarter hours
Social Science Electives (Excluding Psychology and Philosophy)	15 quarter hours
*Health Education/Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

3. Professional Education requirements include:

During any one quarter, a student may **not** enroll for more than three methods courses.

ED 300 Foundations of Education	5 quarter hours
ED 302 Language Development	5 quarter hours
ED 305 Media for Teachers	5 quarter hours

ED 310 Principles of Early Childhood Education	5 quarter hours
ED 312 The Child and Society	5 quarter hours
ED 320 Children's Literature (Methods)	5 quarter hours
ED 321 Materials and Methods of Teaching Language Arts (Methods)	5 quarter hours
ED 323 Principles and Practices of Teaching Reading (Methods)	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
ED 324 Teaching Math to the Young Child (Methods)	5 quarter hours
ED 324C Clinical Experience	1 quarter hour
ED 361 Measurement and Management	5 quarter hours
ED 413 Teaching Reading to the Young Child (Methods)	5 quarter hours
ED 413C Clinical Experience	1 quarter hour
ED 416 Curriculum in Early Childhood Education	5 quarter hours
ED 416F Field Experience	1 quarter hour
ED 420 Materials and Methods of Teaching Science (Methods)	5 quarter hours
ED 423 Materials and Methods of Teaching Social Science (Methods)	5 quarter hours
ED 423F Field Experience	1 quarter hour
ED 480 Internship in Early Childhood Education	15 quarter hours
AR 309 Materials and Methods of Teaching Art	5 quarter hours
MU 451 Materials and Methods of Teaching Music	5 quarter hours
PE 431 Motor Development and Physical Education Activities for the Young Child	5 quarter hours
PS 332 Child Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

4. Students desiring to major both in Early Childhood Education and Elementary Education must meet the course requirements in both programs with an additional five quarter hours of internship.

5. A second major is **not** required.

ELEMENTARY EDUCATION

This program in Elementary Education at Athens State College is designed to assist the student in acquiring the knowledge and skills required of teachers in elementary schools. The program is field-oriented with professional courses requiring direct involvement with children. Students have the opportunity, beginning with the first professional course and culminating with a ten-week internship, to observe and participate in a wide variety of educational settings available through local schools.

Bachelor of Science in Education - Elementary Education Major

Program components for the Bachelor of Science in Education with a major in Elementary Education include:

1. General and Professional education requirements for the degree and applicable general college requirements and conditions for graduation.
2. General Education requirements include:

English Composition	10 quarter hours
Literature	10 quarter hours
Speech	5 quarter hours
General Psychology	5 quarter hours
Mathematics	5 quarter hours
Science (To include both Biological and Physical)	20 quarter hours
Economics	5 quarter hours
American History	5 quarter hours
Government	5 quarter horus
Social Science Electives (Excluding Psychology and Philosophy)	15 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours

During any one quarter, a student may **not** enroll for more than three methods courses.

3. Professional Education requirements include:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 312 The Child and Society	5 quarter hours
ED 320 Children's Literature (Methods)	5 quarter hours
ED 321 Materials and Methods of Teaching Language Arts (Methods)	5 quarter hours
ED 323 Principles and Practices of Teaching Reading (Methods)	5 quarter hours
ED 323C Clinical Experience	1 quarter hour

ED 324 Teaching Mathematics to the Young Child (Methods)	5 quarter hours
ED 324C Clinical Experience	1 quarter hour
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 413 Teaching Reading to the Young Child (Methods)	5 quarter hours
ED 413C Clinical Experience	1 quarter hour
ED 420 Materials and Methods of Teaching Science (Methods)	5 quarter hours
ED 423 Materials and Methods of Teaching Social Science (Methods)	5 quarter hours
ED 423F Field Experience	1 quarter hour
ED 424 Materials and Methods of Teaching Mathematics in the Intermediate Grades (Methods)	5 quarter hours
ED 424C Clinical Experience	1 quarter hour
ED 482 Internship in Elementary Education	15 quarter hours
AR 309 Materials and Methods of Teaching Art	5 quarter hours
MU 451 Materials and Methods of Teaching Music	5 quarter hours
PE 430 Materials and Methods of Teaching Physical Education in the Elementary Schools	5 quarter hours
PS 332 Child Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

4. Students desiring to major both in Elementary Education and Early Childhood Education must meet the course requirements in both programs with an additional five quarter hours of internship.
5. A second major is **not** required.

MIDDLE SCHOOL ENDORSEMENTS

For the student obtaining elementary certification who wishes to add a middle school endorsement in history, English, biology, mathematics, or physical education, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
PS 334 Adolscent Psychology	5 quarter hours
Advisor-approved courses from the approved respective teaching field for 7-12 certification	36 quarter hours

For the student obtaining elementary certification who wishes to add a middle school endorsement in comprehensive science, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
Advisor-approved courses from the approved teaching field for 7-12 certification. Courses must be selected from at least two of these areas: (physics, earth & space science, biology, chemistry)	36 quarter hours

For the student obtaining elementary certification who wishes to add a middle school endorsement in language arts, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
Advisor-approved courses from the approved teaching field for 7-12 certification. Courses must be selected from at least two to these areas: (English, drama, journalism, speech)	36 quarter hours

For the student obtaining elementary certification who wishes to add a middle school endorsement in social science, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
Advisor-approved courses from the approved teaching field for 7-12 certification. Courses must be selected from at least two of these areas: (economics, geography, history, political science, psychology, sociology)	36 quarter hours.

HIGH SCHOOL EDUCATION

The student who wishes to be certified to teach in high school must successfully complete an approved composite major or two majors. The requirements for completing a teacher education program in high school follow:

Bachelor of Science in Education - High School Education Major

Program components for the Bachelor of Science in Education with a major in High School Education include:

1. General and Professional Education requirements for the degree and applicable general college requirements and conditions for graduation.
2. General Education requirements. Professional Education requirements, and Major requirements are listed below:
3. High School Education majors desiring middle school endorsement should refer to their respective high school certification requirements for applicable middle school endorsements.

Bachelor of Science in Education - Biology

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Mathematics	5 quarter hours
Physics	5 quarter hours
Chemistry	5 quarter hours
One of the following:	
GS 300 Astronomy GS 301 Atmospheric & Space Science GS 302 Earth Science	5 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours

ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

Principles of Biology	5 quarter hours
General Botany	5 quarter hours
General Zoology	5 quarter hours
BI 321 Environmental Studies	5 quarter hours
BI 322 Evolution, Heredity and Human Affairs	5 quarter hours
BI 341 Biological Materials and Methods	5 quarter hours

Four of the following:

BI 311 Human Anatomy and Physiology	6 quarter hours
General Microbiology	6 quarter hours
BI 401 Cell Biology	6 quarter hours
BI 411 Invertebrate Zoology I	6 quarter hours
BI 412 Invertebrate Zoology II	6 quarter hours
BI 413 Vertebrate Zoology	6 quarter hours
BI 431 Nonvascular Plants	6 quarter hours
BI 432 Vascular Plants	6 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which is not required above.

For the student obtaining high school certification who wishes a middle school endorsement in biology, the following courses are required:

ED 420 M/M of Teaching Science	5 quarter hours
ED 300 Foundations of Education	5 quarter hours
PS 332 Child Psychology	5 quarter hours
ED 323 Principles & Practices of Teaching Reading	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
Advisor-approved courses from the approved teaching field for 7-12 certification	36 quarter hours.

Bachelor of Science in Education - Chemistry

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Mathematics	5 quarter hours
Physics	5 quarter hours
Biology	5 quarter hours
Earth **or** Space Science	5 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

MA 303/304 Calculus	10 quarter hours
MA 305/306 Intermediate Calculus	10 quarter hours
PY 301 Physics or equivalent	5 quarter hours
General Chemistry **or** CH 303/304/305 Chemistry for Scientific Technologies	15 quarter hours
CH 311/312/313 Organic Chemistry	15 quarter hours
CH 324 Analytical Chemistry	5 quarter hours
CH 330 Physical Chemistry	5 quarter hours

One of the following:

CH 402 Inorganic Chemistry	
CH 413 Biochemistry	5 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which is not required above.

Bachelor of Science in Education - Comprehensive Science

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Mathematics	5 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

Principles of Biology	5 quarter hours
General Botany	5 quarter hours
General Zoology	5 quarter hours
BI 321 Environmental Studies **or** BI 403 General Ecology	5 quarter hours
CH 303/304/305 Chemistry for Scientific Technologies	15 quarter hours
GS 300 Astronomy	5 quarter hours
GS 302 Earth Science	5 quarter hours
MA 303/304 Calculus	10 quarter hours
MA 305/306 Intermediate Calculus	10 quarter hours
MA 421 Differential Equations	5 quarter hours
PY 301/302/303 General Physics	15 quarter hours
PY 305 Modern Physics	5 quarter hours
Earth **or** Space Science	5 quarter hours
One of the following:	
BI 322 Evolution, Heredity and Human Affairs BI 401 Cell Biology	5 quarter hours
One of the following:	
CH 311 Organic Chemistry CH 312 Organic Chemistry CH 324 Analytic Chemistry	5 quarter hours

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in comprehensive science, the following courses are required:

ED 420 M/M of Teaching Science	5 quarter hours
ED 300 Foundations of Education	5 quarter hours
PS 332 Child Psychology	5 quarter hours
ED 323 Principles & Practices of Teaching Reading	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
Advisor-approved courses from the approved teaching field for 7-12 certification. Courses must be selected from at least two of these areas: (physics, earth & space science, biology, chemistry)	36 quarter hours

Bachelor of Science in Education - English

A. General Education requirements:

Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Mathematics	5 quarter hours
Science (Must include both Biological and Physical)	15 quarter hours
Science **or** Social Science Elective	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Speech	5 quarter hours
EH 312 Dramatic Literature	5 quarter hours
EH 320 Advanced Grammar	5 quarter hours
EH 414 History of the English Language	5 quarter hours
EH 425 Shakespeare: the Sonnets and the Plays	5 quarter hours
EH 431 Poetry	5 quarter hours
EH 433 Fiction	5 quarter hours

One of the following:

EH 304 Southern Literature
EH 307 Major Authors (Ancient to Renaissance)
EH 308 Major Authors (Renaissance through Modern)
EH 310 Film
EH 315 Science Fiction
EH 325 Myth and Folklore in Literature 5 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which is not required above.

For the student obtaining high school certification who wishes a middle school endorsement in English, the following courses are required:

ED 321 M/M of Teaching Language Arts	5 quarter hours
ED 300 Foundations of Education	5 quarter hours
PS 332 Child Psychology	5 quarter hours
ED 323 Principles & Practices of Teaching Reading	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
Advisor-approved courses from the approved teaching field for 7-12 certification.	36 quarter hours

Bachelor of Science in Education - History

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
General Psychology	5 quarter hours
Mathematics	5 quarter hours
Science (Must include both Biological and Physical)	15 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements.

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

Western Civilization **or** Survey of American History	10 quarter hours
SS 300 Principles of Social Science	5 quarter hours
HY 301 Social Science Research Techniques and Methods	5 quarter hours
HY 303 Alabama History	5 quarter hours
HY 400 Colonial and Revolutionary America	5 quarter hours
HY 403 Twentieth Century America	5 quarter hours

One (1) of the following:

HY 312 Revolutionary Europe HY 313 Europe in the Victorian Age HY 314 Contemporary Europe	5 quarter hours
History Elective (Must be HY 311 Dawn of Modern Europe for student who did not take Western Civilization)	5 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which is not required above.

A minor is not required.

For the student obtaining high school certification who wishes a middle school endorsement in history, the following courses are required:

ED 423 M/M of Teaching Social Science	5 quarter hours
ED 423F Field Experience	1 quarter hour
ED 300 Foundations of Education	5 quarter hours
PS 332 Child Psychology	5 quarter hours
ED 323 Principles & Practices of Teaching Reading	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
Advisor-approved courses from the approved teaching field for 7-12 certification	36 quarter hours

Bachelor of Science in Education - Language Arts

A. General Education requirements:

Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Mathematics	5 quarter hours
Science (Must include both Biological and Physical)	15 quarter hours
Science or Social Science Elective	5 quarter hours

*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Speech	5 quarter hours
EH 303 Journalism	5 quarter hours
EH 311 Drama Production	5 quarter hours
EH 312 Dramatic Literature	5 quarter hours
EH 320 Advanced Grammar	5 quarter hours
EH 400 Oral Interpretation/Speech	5 quarter hours
EH 414 History of the English Language	5 quarter hours
EH 425 Shakespeare: the Sonnets and the Plays	5 quarter hours
EH 431 Poetry	5 quarter hours
EH 433 Fiction	5 quarter hours

Two of the following:

EH 304 Southern Literature
EH 307 Major Authors (Ancient or Renaissance)
EH 308 Major Authors (Renaissance through Modern)
EH 310 Film
EH 315 Science Fiction
EH 325 Myth and Folklore in Literature 10 quarter hours

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in language arts, the following courses are required:

ED 321 M/M of Teaching Language Arts	5 quarter hours
ED 300 Foundations of Education	5 quarter hours
PS 332 Child Psychology	5 quarter hours
ED 323 Principles & Practices of Teaching Reading	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
Advisor-approved courses from the approved teaching field for 7-12 certification. Courses must be selected from at least two of these areas: (English, drama, journalism, speech)	36 quarter hours

Bachelor of Science in Education - Mathematics

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Biology	5 quarter hours
Physics	5 quarter hours
Chemistry	5 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

MA 303/304 Calculus and Analytic Geometry	10 quarter hours
MA 305/306 Intermediate Calculus	10 quarter hours

CS 302 BASIC Programming **or** CS 330 FORTRAN Programming	5 quarter hours

Plus four mathematics electives (20 quarter hours of coursework) with catalog numbers higher than MA 306.

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in mathematics, the following courses are required:

ED 424 M/M of Teaching Mathematics in Intermediate Grades	5 quarter hours
ED 424C Clinical Experience	1 quarter hour
ED 300 Foundations of Education	5 quarter hours
PS 332 Child Psychology	5 quarter hours
ED 323 Principles & Practices of Teaching Reading	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
Advisor-approved courses from the approved teaching field for 7-12 certification.	36 quarter hours

Bachelor of Science in Education - Physical Education

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Mathematics	5 quarter hours
Human Anatomy and Physiology	6 quarter hours
Biology	5 quarter hours
Physical Science	5 quarter hours
Speech	5 quarter hours
Biology Elective	5 quarter hours

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PE 401 Measurement and Evaluation of Physical Education	5 quarter hours
PE 440 Materials and Methods of Teaching Physical Education	5 quarter hours

PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

Introduction to Physical Education	5 quarter hours
Personal and Community Health	5 quarter hours
Emergency First Aid	5 quarter hours
Physical Education Activity	5 quarter hours
PE 320 Analysis of Team Sports	3 quarter hours
PE 321 Analysis of Gym/Track/Field	3 quarter hours
PE 322 Analysis of Individual Sports	3 quarter hours
PE 323 Analysis of Rhythms and Aquatics	3 quarter hours
PE 325 Kinesiology	5 quarter hours
PE 326 History and Principles of Physical Education	5 quarter hours
PE 333 Care and Prevention of Athletic Injuries	3 quarter hours
PE 400 Organization and Administration of Physical Education	5 quarter hours

A second major is required. Student must complete ED 361 and ED 431 to meet requirements for a second major.

Bachelor of Science in Education - Political Science

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Mathematics	5 quarter hours
Science (Must include both Biological and Physical)	15 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours

ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

PO 302 Problems of American Government	5 quarter hours
HY/PO 354 Communist Area Studies	5 quarter hours
BU/PO 358 Public Administration	5 quarter hours
PO 360 Constitutional Law	5 quarter hours
PO 452 Comparative Political Systems	5 quarter hours
HY/PO 456 America and the World	5 quarter hours
SS 300 Principles of Social Science	5 quarter hours

One of the following:

PO 303 Comparative State and Urban Government	
PO 305 Alabama Government	5 quarter hours

One of the following:

EC/PO 319 Introduction to International Commerce	
PO 453 International Politics	5 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which is not required above.

Bachelor of Science in Education - Psychology

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
Mathematics	5 quarter hours
Science (Must include both biological and Physical)	15 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours

ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

General Psychology **or** PS 300 Contemporary Psychology	5 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology (Student must complete the course not selected as a professional Education requirement for certification.)	5 quarter hours
PS 331 Social Psychology	5 quarter hours
PS 341 Statistics in Behavioral Science	5 quarter hours
PS 352 Abnormal Psychology	5 quarter hours
PS 400 Experimental Psychology and Methodology for Behavioral Science	5 quarter hours
PS 402 Seminar in Psychotherapy	5 quarter hours
PS 406 Physiological Psychology	5 quarter hours
SS 300 Principles of Social Science	5 quarter hours

One of the following:

PS 370 Behavior Modification	5 quarter hours
PS 404 Drug Dependence	5 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which is not required above.

Bachelor of Science in Education - Social Science

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Mathematics	5 quarter hours
Science (Must include both Biological and Physical)	15 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours
Other Electives	10 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 361 Measurement and Management	5 quarter hours
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 330 Educational Psychology **or** PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

Western Civilization **or** Survey of American History	10 quarter hours
General Psychology	5 quarter hours
EC 310 Basic Economics	5 quarter hours
GO 309 World Regional Geography	5 quarter hours
SS/HY 301 Social Science Research Techniques and Methods	5 quarter hours
HY 303 Alabama History	5 quarter hours
HY 400 Colonial and Revolutionary America	5 quarter hours
PH 301 Introduction to Philosophy	5 quarter hours
HY/PO 300 Great American Issues	5 quarter hours
SO 361 Social Analysis	5 quarter hours

One of the following:

EC/SS 321 Money and Banking EC/SS 322 Macroeconomics for Management EC/SS 323 The Economics of the Firm	5 quarter hours

One of the following:

EC/GO 311 Economic Geography GO 320 Anglo-American Geography	5 quarter hours

Two of the following:

PO 303 Comparative State and Urban Government PO 453 International Politics HY/PO 456 America and the World	10 quarter hours

One of the following:

SO 312 Marjority/Minority Group Relations SO 362 Deviant Social Behavior	5 quarter hours

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in social science, the following courses are required:

ED 423 M/M of Teaching Social Science	5 quarter hours
ED 423F Field Experience	1 quarter hour
ED 300 Foundations of Education	5 quarter hours
PS 332 Child Psychology	5 quarter hours
ED 323 Principles & Practices of Teaching Reading	5 quarter hours
ED 323C Clinical Experience	1 quarter hour
Advisor-approved courses from the approved teaching field for 7-12 certification. Courses must be selected from at least two to these areas: (economics, geography, history, political science, psychology, sociology)	36 quarter hours.

Bachelor of Science in Education - Secondary T & I

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Social Science Elective	5 quarter hours
Mathematics	5 quarter hours
Science (Must include both Biological and Physical)	20 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

*For a combined total of 5 quarter hours.

B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 486 Internship in High School Education	15 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours
VE 302 Foundations of Vocational and Technical Education	5 quarter hours
VE 432 Methods of Teaching Vocational and Technical Subjects	5 quarter hours

VE 433 Materials in Vocational Education 5 quarter hours
VE 440 Testing and Evaluation in Vocational Education 5 quarter hours

C. Major requirements:

MG 348 Manpower and Labor Economics 5 quarter hours
VE 434 Occupational Analysis and Curriculum Development in Vocational and Technical Education 5 quarter hours
VE 435 Industrial and Shop Safety 5 quarter hours
VE 436 Vocational Information Guidance 5 quarter hours
VE 438 Shop Organization and Management 5 quarter hours
VE 439 Youth Organizations and Advisory Committees 5 quarter hours
VE 445 Functions of the Coordinator 5 quarter hours

Technical Specialization 40-55 quarter hours

One of the following:

VE 259 Basic Technical Specialty
VE 269 Tranfser Credit in Vocational and Technical Specialization Area 40-53 quarter hours

May apply the following toward major study credit:

VE 459 Advanced Vocational and Technical Specialty
VE 469 Vocational and Technical Specialty 1-18 quarter hour

A second major is **not** required.

Bachelor of Science in Education - N - 12 Education Major

Bachelor of Science in Education - Physical Education

A. General Education requirements:

English Composition 10 quarter hours
Literature Survey 10 quarter hours
Economics 5 quarter hours
History 5 quarter hours
General Psychology 5 quarter hours
Social Science Elective 5 quarter hours
Human Anatomy and Physiology 6 quarter hours
Biology 5 quarter hours
Physical Science 5 quarter hours
Mathematics 5 quarter hours
Speech 5 quarter hours
Biology Elective 5 quarter hours

B. Professional Education requirements:

ED 300 Foundations of Education 5 quarter hours
ED 305 Media for Teachers 5 quarter hours
ED 333 Teaching Reading in the Content Area 5 quarter hours

ED 488 Internship in N-12 Education	15 quarter hours
PE 401 Measurement and Evaluation of Physical Education	5 quarter hours
PE 430 Materials and Methods of Teaching Physical Education in the Elementary School	5 quarter hours
PE 440 Materials and Methods of Teaching Physical Education in High School	5 quarter hours
PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

Introduction to Physical Education	5 quarter hours
Personal and Community Health	5 quarter hours
Emergency First Aid	5 quarter hours
Physical Education Activity	5 quarter hours
PE 320 Analysis of Team Sports	3 quarter hours
PE 321 Analysis of Gym/Track/Field	3 quarter hours
PE 322 Analysis of Individual Sports	3 quarter hours
PE 323 Analysis of Rhythms and Aquatics	3 quarter hours
PE 325 Kinesiology	5 quarter hours
PE 326 History and Principles of Physical Education	5 quarter hours
PE 327 Physiology of Exercise	5 quarter hours
PE 333 Care and Prevention of Athletic Injuries	3 quarter hours
PE 350 Physical Education of the Exceptional Child	5 quarter hours
PE 355 Health-Related Fitness and Nutrition	5 quarter hours
PE 400 Organization and Administration of Physical Education	5 quarter hours
PE 431 Motor Development and Physical Activity	5 quarter hours

A second major is **not** required.

Bachelor of Science in Education - Learning Disabled

A. General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	10 quarter hours
General Psychology	5 quarter hours
Mathematics	10 quarter hours
Biology	5 quarter hours
Physical Science	5 quarter hours

Speech	5 quarter hours
Introduction to Sociology	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours
**Electives	10 quarter hours

*For a combined total of 5 quarter hours.

**Recommend courses for Elementary Teachers in Art and Music.

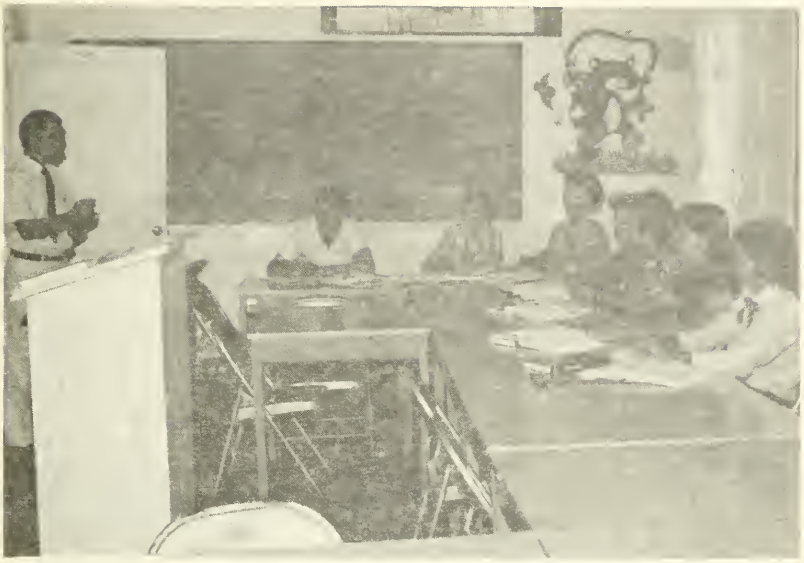
B. Professional Education requirements:

ED 300 Foundations of Education	5 quarter hours
ED 305 Media for Teachers	5 quarter hours
ED 324 Teaching Math to the Young Child	5 quarter hours
ED 324C Clinical Experience	1 quarter hour
ED 333 Teaching Reading in the Content Area	5 quarter hours
ED 424 Materials and Methods of Teaching Mathematics in the Intermediate Grades	5 quarter hours
ED 424C Clinical Experience	1 quarter hour
ED 488 Internship in N-12 Education	15 quarter hours
PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
PS 461 Tests and Measurements	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours

C. Major requirements:

ED 302 Language Development	5 quarter hours
ED 323 Principles and Practices of Teaching Reading	5 quarter hours
PS 330 Educational Psychology **or** PS 406 Physiological Psychology	5 quarter hours
SE 320 Learning Disabilities: Theories & Issues	5 quarter hours
SE 330 Planning Curriculum and IEP's for the Learning Disabled	5 quarter hours
SE 400 Classroom Management and Discipline	5 quarter hours
SE 410 Assessment of Exceptional Children	5 quarter hours
SE 420 Alternative Instructional Strategies	5 quarter hours
SE 430 Advanced Diagnostic and Implementation Strategies	5 quarter hours
SE 440 Meeting the Needs of the Secondary Learning Disabled	5 quarter hours
SE 450 Professional Development Seminar	5 quarter hours
SE 470 Parent and Professional Conferencing Techniques	5 quarter hours

A second major is **not** required.



EDUCATION (ED) COURSES

ED 300 Foundations of Education. A survey course designed for the student who expects to prepare for the teaching profession. Includes principles, history, philosophy, and trends in education. Includes field experience. Required for all teacher-education majors. 5 quarter hours

ED 302 Language Development. An analysis of the language including phonology, syntax, and semantics with emphasis on school applications in reading, grammar, spelling, and composition. 5 quarter hours

ED 305 Media for Teachers. A course presenting the rudiments of instructional planning, and the preparation and presentation of instructional resources such as audio-visuals, teacher-made materials and commercially prepared materials. Required for all teacher-education majors. (Fee required) Prerequisite: Admission to the Teacher Education Program. 5 quarter hours

ED 310 Principles of Early Childhood Education. A course concerned with the historical, theoretical, and practical issues of Early Childhood Education. (This course is a prerequisite to all courses in Early Childhood Education.) 5 quarter hours

ED 312 The Child and Society. A course designed to assist prospective teachers to develop understanding and appreciations of various social and ethnic groups and their cultures including the impact of these cultural phenomena on the educative process. 5 quarter hours

ED 320 Children's Literature. A survey of current and traditional prose and poetry thought to be particularly applicable to the lives of children. It includes preparation of visuals and classroom presentation strategies. Includes field experience.

5 quarter hours

ED 321 Materials and Methods of Teaching Language Arts in the Primary and Intermediate Grades. A comprehensive overview in all the language arts including handwriting, grammar, spelling, oral communication, written communication and listening. The course reflects the integrative nature of the language arts; the need for wholeness; the importance of being able to transfer skills, abilities, and attitudes learned in one context to another. Includes field experience. 5 quarter hours

ED 323 Principles and Practices of Teaching Reading. In-depth study in and application of, theoretical approaches, instructional strategies, classroom organization, and formal/informal assessment of the teaching of reading in the elementary school. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

ED 323C Clinical Experience in Principles and Practices of Teaching Reading. Clinical experience in which the student uses a diagnostic prescriptive management system, current curriculum resources, audio-visual learning machines, and teacher-made materials to individually tutor a child. To be taken concurrently with corresponding education course. Prerequisite: Admission to the Teacher Education Program.

1 quarter hour

ED 324 Teaching Mathematics to the Young Child. A course designed to assist prospective teachers of young children in presenting early mathematical ideas. It includes the application of psychological principles to the teaching and learning of mathematics. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

ED 324C Clinical Experience in Teaching Mathematics. Clinical experience in which the student uses a diagnostic prescriptive management system, current curriculum resources, audio-visual learning machines, and teacher-made materials to individually tutor a child. To be taken concurrently with corresponding education course. Prerequisite: Admission to the Teacher Education Program.

1 quarter hour

ED 333 Teaching Reading in the Content Area. A course presenting fundamentals of vocabulary development and directed reading instruction in the social sciences, natural and physical sciences, mathematics, arts and music for students in grades 4 - 12.

Prerequisite: Admission to the Teacher Education Program for secondary and N-12 major.

5 quarter hours

ED 361 Measurement and Management. This course is designed to provide future teachers with the skills and attitudes necessary to create a positive learning environment. It will also assist them to be able to develop and implement proper evaluative techniques and to give direction to pupil growth and development. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

ED 413 Teaching Reading to the Young Child. An in-depth study of reading readiness skills, and phonics, and the language experience and basal reader approaches to teaching reading to the young child. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

ED 413C Clinical Experience in Teaching Reading to the Young Child. Clinical experience in which the student uses a diagnostic prescriptive management system, current curriculum resources, audio-visual learning machines, and teacher-made materials to individually tutor a child. To be taken concurrently with corresponding education course. Prerequisite: Admission to the Teacher Education Program.

1 quarter hour

ED 416 Curriculum in Early Childhood Education. A course emphasizing methods, materials, and special techniques appropriate for children ages four through eight; involvement of basic principles underlying the development and planning of curriculum throughout the course. Prerequisite: ED 310 and Admission to the Teacher Education Program.

5 quarter hours

ED 416F Field Experience in Curriculum in Early Childhood Education. Classroom observation and participation in child care centers, nursery schools, Head-Start programs, kindergartens and primary grades in the public school. To be taken concurrently with corresponding education course. Prerequisite: Admission to the Teacher Education Program.

1 quarter hour

ED 420 Materials and Methods of Teaching Science. A course designed to provide a study of the science concepts for early childhood education and elementary education. Emphasis is placed on materials and methods, processes of discovery, and the role of children as investigators. 5 quarter hours

ED 423 Materials and Methods of Teaching Social Studies. A presentation of instructional materials, resources and strategies to

be used for teaching social science concepts from the disciplines of economics, geography, history, political science, psychology, and sociology to children in the elementary school. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

ED 423F Field Expeience in Teaching Social Studies. Classroom observation and participation in elementary schools to be taken concurrently with corresponding education course. Prerequisite: Admission to the Teacher Education Program

1 quarter hour

ED 424 Materials and Methods of Teaching Mathematics in the Intermediate Grades. A course designed to provide study of the mathematics skills and concepts in grades 4 - 6 with an emphasis on materials and methods for instruction. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

ED 424C Clinical Experience in Teaching Mathematics in the Intermediate Grades. Clinical experience in which the student uses a diagnostic prescriptive management system, current curriculum resources, audio-visual learning machines, and teacher-made materials in individually tutor a child. To be taken concurrently with corresponding education course. Prerequisite: Admission to the Teacher Education Program

1 quarter hour

ED 431 Materials and Methods of Teaching in the Middle School/High School. The fundamental principles and techniques in planning, implementing, and evaluating learning activities and in selecting and using appropriate materials and equipment. The second phase is individualized according to the student's major areas. Includes field experience. Prerequisite: Admission to the Teacher Education Program. 5 quarter hours

ED 435 Teaching in the Middle School. A course designed to acquaint the student with history and development of the Jr. High/Middle School. It also focuses on the unique characteristics of this age group and methods and techniques used to assist their growth. Includes field experience. Prerequisite: Admission to the Teacher Education Program. 5 quarter hours

ED 441, 442, 443, 444 Special Topics in Education. To be offered on occasion of student demand or need.

1-5 quarter hours

ED 460 Directed Study/Research in Education. To be offered on occasion of student demand or need.

1-5 quarter hours

ED 480 Internship in Early Childhood Education. After a period of orientation, the student gains practical experience in teaching classes in the public schools under the continual guidance of competent critic teachers in cooperation with the college faculty member. Materials and methods are utilized in lesson planning and teaching, and participation in all activities is required of the intern. Includes seminar. Prerequisite: Senior standing and completion of all professional education requirements. (Fee required)
15 quarter hours

ED 481 Internship in Early Childhood Education. A course required for elementary majors seeking additional certification in Early Childhood Education. (Fee required) 5 quarter hours

ED 482 Internship in Elementary Education. After a period of orientation and observation, the student gains practical experience in teaching classes in the public schools under the continual guidance of a competent teacher in cooperation with the college faculty member. Materials and methods are utilized in lesson planning and teaching. Participation in all school activities is required of the intern. Includes seminar. Prerequisite: Senior standing, and the completion of all professional education requirements. Fall, winter and spring only. (Fee required)
15 quarter hours

ED 483 Internship in Elementary Education. A course required for Early Childhood majors seeking additional certification in Elementary Education. (Fee required) 5 quarter hours

ED 484 Internship in Middle School Education. After a period of orientation and observation, the student gains practical experience in teaching classes in his or her field in the public schools. This experience is under the continual guidance of a competent teacher in cooperation with the college faculty member. Materials and methods are utilized in lesson planning and teaching. Participation in all school activities is required of the intern. Includes seminar. Prerequisite: Senior standing, and the completion of all professional education requirements. Fall, winter, and spring only. (Fee required) 15 quarter hours

ED 485 Internship in Middle School Education. A course required of high school education majors seeking additional certification in middle school education. (Fee required) 5 quarter hours

ED 486 Internship in High School Education. After a period of orientation and observation, the student gains practical experience in teaching classes in his or her major fields in the public schools. This experience is under the continual guidance of a competent teacher in cooperation with the college faculty member. Materials and methods are utilized in lesson planning and teaching.

Participation in all school activities is required of the intern. Includes seminar. Prerequisite: Senior standing, and the completion of all professional education requirements. Fall, winter and spring only. (Fee required) 15 quarter hours

ED 487 Internship in High School Education. A course required of middle school education majors seeking additional certification in high school education. (Fee required) 5 quarter hours

ED 488 Internship in N-12 Education. After a preiod of orientation, the student will gain practical experience in teaching classes in the public schools under continual guidance of competent teachers in cooperation with the college faculty member.* Utilization of material and methods of teaching and participation in all activities are required of the intern. Includes seminar. Prerequisite: all other coursework except ED 413 in the L.D. major which may be taken concurrently with ED 488. (Fee required) 15 quarter hours

PE 401 Measurement and Evaluation of Physical Education. Included in this course is the study of theory of measurement in physical education, the selection and administration of appropriate tests, and interpretation of test results by fundamental statistical procedures. 5 quarter hours

PE 430 Materials and Methods of Teaching Physical Education in the Elementary School. A course designed to study source materials, planning and organizing instruction, selection of suitable activities, and preparation of teaching units for physical education in the elementary school. Prerequisite: Admission to the Teacher Education Program. 5 quarter hours

PE 440 Materials and Methods of Teaching Physical Education in High School. Emphasis is placed on approved teaching techniques, theories of learning, characteristics of high school students, planning for instruction, instructional management and selection of learning activities. Lesson planning and unit construction are an important part of this course. 5 quarter hours

PS 330 Educational Psychology. Application of psychological concepts and principles to classroom teaching and learning especially in the areas of motivation, individual differences, adjustment, and teacher-student interaction. 5 quarter hours

PS 332 Child Psychology. A study of the physical, mental, social and emotional development of the child. 5 quarter hours

PS 334 Adolescent Psychology. Biological, psychological and sociological perspectives with consideration of major theoretical approaches to adolescent development, development of cognitive

*Five weeks will be spent in elementary settings and five weeks will be spent in secondary settings.

processes, social attachment, sexual differences, emotional development, values and moral attitudes. 5 quarter hours

PS 336 Learning Theories. A survey of research and experiments in learning and related growth of the major theories of learning. 5 quarter hours

PHYSICAL EDUCATION, RECREATION, AND INTRAMURALS

Betty Jo Fuller, M.S., Program Director

The Physical Education, Recreation, and Intramurals areas at Athens State College offer courses which meet the requirements of the State Department of Education for Class "B" Teacher Certification for the professional programs in Physical Education (N-12, Middle/Junior High School, and High School.), and the Bachelor of Science (non-certification) degree.

With minor exceptions, General and Professional education requirements for the Physical Education major are common to each area of certification. A minor in Physical Education is also offered.

In addition to the above courses of study, students faculty, staff and community are provided an opportunity to participate in a wide variety of physical activities through the Campus Recreation and Intramurals programs. The emphasis of these programs is on exercise and its role in improving and maintaining ones health.

Bachelor of Science in Physical Education

A major in Physical Education with a Bachelor of Science Degree responds to a need to prepare professionals with expertise in fitness, sports and recreation who become employed in such areas as business, industry, service agencies, correctional institutions and hospitals.

Program components for the Bachelor of Science in Physical Education degree include:

General Education requirements:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
General Psychology	5 quarter hours
Humanities Elective	5 quarter hours
Biology	10 quarter hours
Physical Science	5 quarter hours
Mathematics	5 quarter hours
Speech	5 quarter hours

Major requirements:

Introduction to Physical Education	5 quarter hours
Personal and Community Health	5 quarter hours
Emergency First Aid	5 quarter hours
Human Anatomy and Physiology	5 quarter hours
Physical Education Activity	5 quarter hours
PE 320 Analysis of Team Sports	3 quarter hours
PE 321 Analysis of Gym/Track/Field	3 quarter hours
PE 322 Analysis of Individual Sports	3 quarter hours
PE 323 Analysis of Rhythms and Aquatics	3 quarter hours
PE 325 Kinesiology	5 quarter hours
PE 326 History and Principles of Physical Education	5 quarter hours
PE 327 Physiology of Exercise	5 quarter hours
PE 333 Care and Prevention of Athletic Injuries	3 quarter hours
PE 352 Basic CPR Instructor's Course	3 quarter hours
PE 355 Health-Related Fitness and Nutrition	5 quarter hours
PE 400 Organization and Administration of Physical Education	5 quarter hours
PE 401 Measurement and Evaluation of Physical Education	5 quarter hours
PE 431 Motor Development and Physical Activity	5 quarter hours
PS 332 Child Psychology	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
PS 335 Adult Psychology	5 quarter hours
SO 471 Aging in a Mass Society	5 quarter hours
PE 480 Practicum in Physical Education	15 quarter hours

A minor is not required.

Bachelor of Science in Education - Physical Education Major N - 12 Certification

Program components for the Bachelor of Science in Education degree with a major in Physical Education, N - 12 certification, include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Professional education requirements for N - 12 certification as listed in the Division of Education section of this catalog.
3. The major must include the following courses:

PE 320 Analysis of Team Sports	3 quarter hours
PE 321 Analysis of Gym/Track/Field	3 quarter hours
PE 322 Analysis of Individual Sports	3 quarter hours
PE 323 Analysis Rhythms and Aquatics	3 quarter hours
PE 325 Kinesiology	5 quarter hours
PE 326 History and Principles of Physical Education	5 quarter hours
PE 327 Physiology of Exercise	5 quarter hours
PE 333 Care and Prevention of Athletic Injuries	3 quarter hours
PE 350 Physical Education for the Exceptional Child	5 quarter hours
PE 355 Health Related Fitness and Nutrition	5 quarter hours
PE 400 Organization and Administration of Physical Education	5 quarter hours
PE 401 Measurement and Evaluation of Physical Education	5 quarter hours
PE 430 Materials and Methods of Teaching Physical Education in the Elementary School	5 quarter hours
PE 431 Motor Development and Physical Activity	5 quarter hours

4. A second major is **not** required.

Physical Education Minor

A student interested in health-related fitness or recreation might pursue this course of study.

PE 320 Analysis of Team Sports	3 quarter hours
PE 321 Analysis of Gym/Track/Field	3 quarter hours
PE 322 Analysis of Individual Sports	3 quarter hours
PE 323 Analysis of Rhythms and Aquatics	3 quarter hours
PE 326 History and Principles of Physical Education	5 quarter hours
PE 352 Basic CPR and Instructor's Course	3 quarter hours
PE 355 Health-Related Fitness/Nutrition	5 quarter hours
PE 400 Organization and Administration of Physical Education	5 quarter hours

PHYSICAL EDUCATION (PE) COURSES

The activity courses are open to all students of the College. These courses are designed to meet general education requirements as well as enhance fitness and to provide personal enrichment.

PE 300 Slimnastics	1 quarter hour
PE 301 Weight Training	1 quarter hour
PE 302 Swimming	1 quarter hour
PE 303 Life Saving	1 quarter hour
PE 304 Water Safety Instructor	1 quarter hour

PE 305 Tumbling	1 quarter hour
PE 306 Archery	1 quarter hour
PE 307 Bowling	1 quarter hour
PE 308 Tennis	1 quarter hour
PE 309 Badminton	1 quarter hour
PE 310 Golf	1 quarter hour
PE 311 Folk and Square Dance	1 quarter hour
PE 312/313 Varsity Athletics (By PE 312 permission only)	1 quarter hour each
PE 314 Individualized Physical Activity	1 quarter hour
PE 315 Basketball	1 quarter hour
PE 316 Volleyball	1 quarter hour
PE 317 Flag Football	1 quarter hour
PE 318 Soccer	1 quarter hour
PE 319 Softball	1 quarter hour

PE 320 Analysis of Team Sports. A competency-based course dealing with analysis of the movement involved in the performance of various specified team sports. Practical experience in conditioning drills used to improve performance, and strategies of the games are included. 3 quarter hours

PE 321 Analysis of Gymnastics/Track/Field. A competency-based course dealing with the analysis of movement involved in the performance of gymnastics and track/field. Practical experience in conditioning, drills used to improve performance, and strategies used in competition are included. 3 quarter hours

PE 322 Analysis of Individual Sports. A competency-based course dealing with the analysis of movement involved in the peformance of badminton, golf, and tennis skills. Practical experiences in conditioning, skill improvement, and strategies used in playing each sport are included. 3 quarter hours

PE 323 Analysis of Rhythms and Aquatics. A competency-based course dealing with the analysis of movement involved in the performance of rhythms and aquatics activities. Practical experiences in conditioning, skill improvement, and movement analysis are included. 3 quarter hours

PE 325 Kinesiology. Anatomical, mechanical, and functional aspects of human movement are studied with emphasis on analysis of joint actions, mechanical principles, and laws of motion as they apply to efficient movement. Prerequisite: Anatomy and Physiology. 5 quarter hours

PE 326 History and Principles of Physical Education. A course designed to provide the professional student an overview of the body of knowledge encompassing the discipline of physical education. Historical, psychological, biological, and sociological foundations of human movement are studied. 5 quarter hours

PE 327 Physiology of Exercise. A course designed to provide the student an opportunity to develop a better understanding of the effects of exercise on body systems, factors affecting performance, and the role of physical education in health-related fitness. 5 quarter hours

PE 333 Care and Prevention of Athletic Injuries. A course designed to familiarize students with the most prevalent athletic injuries, their anatomical explanation and physiological complications, and treatment of such injuries. 3 quarter hours

PE 350 Physical Education of the Exceptional Child. A course designed to provide students with the information necessary to understand, evaluate, and develop programs of physical activities to meet the special needs, interests, and abilities of exceptional children and youth. 5 quarter hours

PE 352 Basic CPR and Instructor's Course. A course designed to inform students about the basic principles of coronary pulmonary resuscitation and to provide training in the procedures of administering CPR. Prepare the student to become a CPR instructor. (American Red Cross/Heart Association certification is awarded for the successful completion of this course.) 3 quarter hours

PE 354 Contemporary Health. A course dealing with problems of personal and community health, designed to assist students in developing a broad understanding of their obligation to themselves and society in matters of health. 3 quarter hours

PE 355 Health-Related Fitness and Nutrition. This is a competency based course dealing with the development of cardiovascular endurance, muscle strength, flexibility, nutrition and appropriate body composition as these elements contribute to health-related fitness. 5 quarter hours

PE 400 Organization and Administration of Physical Education. A course designed to provide the professional student theoretical and practical information about specific aspects of the process of organizing and administering physical education and athletic programs. 5 quarter hours

PE 401 Measurement and Evaluation of Physical Education. Included in this course is the study of theory of measurement in physical education, the selection and administration of appropriate tests, and the interpretation of test results by fundamental statistical procedures. 5 quarter hours

PE 402 School and Community Recreation. A course designed to teach the student the philosophy and purpose of recreation. Deals with the organization and administration of all aspects of a recreation program in the school and community. 5 quarter hours

PE 415 The School Health Program. Consideration is given to the organization of the total school health program involving health services, healthful school living, and health instruction. Content, methods, and materials suitable for grades N - 12 are stressed.
5 quarter hours

PE 430 Materials and Methods of Teaching Physical Education in the Elementary School. A course designed to study source materials, planning and organizing instruction, selection of suitable activities, and preparation of teaching units for physical education in the elementary school. 5 quarter hours

PE 431 Motor Development and Physical Activity. The influence of various tissues (i.e. muscle, bone, adipose), and coordinated neural function are central concerns of this course. Physical activities intended to enhance the physical and motoric growth and development of young children are examined. The relationship of physical and motoric growth and development to all other aspects of human development are studied.
5 quarter hours

PE 440 Materials and Methods of Teaching Physical Education in High School. Emphasis is placed on approved teaching techniques, theories of learning, characteristics of high school students, planning for instruction, instructional management and selection of learning activities. Lesson planning and unit construction are an important part of this course. 5 quarter hours

PE 441, 442, 443, 444 Special Topics in Physical Education. To be offered on occasion of student demand or need.
1-5 quarter hours

PE 451 Health Curriculum. A course designed to give the student an understanding of the development and implementation of a Health Instruction Program based on the needs and interests of students in grades N - 12. 5 quarter hours

PE 452 Materials and Methods of Teaching Health in the Elementary School. A course designed to study source materials, planning and organizing instruction, selection of suitable activities and preparation of teaching units for health education in the elementary school. 5 quarter hours

PE 460 Directed Study/Research in Physical Education. To be offered on occasion of student demand or need.
1-5 quarter hours

SPECIAL EDUCATION (Learning Disabilities)

The Special Education Program at Athens State College is designed to prepare professionals to work with the learning disabled across various

age levels (N through Grade 12). The program provides pre-service training in preparation for the class "B" certificate.

Bachelor of Science in Education - Special Education Major

Program components for the Bachelor of Science in Education with a major in Special Education (Learning Disabilities) include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Professional education requirements as listed in the Division of Education section of this catalog.
3. The major must include the following courses:

ED 302 Language Development	5 quarter hours
ED 323 Principles and Practices of Teaching Reading	5 quarter hours
PS 330 Educational Psychology **or** PS 406 Physiological Psychology	5 quarter hours
SE 320 Learning Disabilities: Theories & Issues	5 quarter hours
SE 330 Planning Curriculum and IEP's for the Learning Disabled	5 quarter hours
SE 400 Classroom Management & Discipline	5 quarter hours
SE 410 Assessment of Exceptional Children	5 quarter hours
SE 420 Alternative Instructional Strategies	5 quarter hours
SE 430 Advanced Diagnostic and Implementation Strategies	5 quarter hours
SE 440 Meeting the Needs of the Secondary Learning Disabled	5 quarter hours
SE 450 Professional Development Seminar	5 quarter hours
SE 470 Parent and Professional Conferencing Techniques	5 quarter hours

4. A second major is **not** required.

SPECIAL EDUCATION MINOR

Those students who wish to minor in Special Education may do so through consultation with their advisor and Special Education professor(s). It is understood that this minor is to meet College requirements only and will not qualify the student to meet state certification requirements. The following courses will be required of any student desiring to minor in Special Education:

SE 301 Introduction to the Exceptional Child	5 quarter hours
SE 330 Planning Curriculum and IEP's for the Learning Disabled	5 quarter hours
SE 410 Assessment of the Exceptional Child	5 quarter hours
SE 420 Alternative Instructional Strategies	5 quarter hours

The following courses are suggested as electives (two should be selected by the student):

ED 302 Language Development	5 quarter hours
SE 320 Learning Disabilities: Theories and Issues	5 quarter hours
SE 331 Psychology of Mental Retardation	5 quarter hours
SE 440 Meeting the Needs of the Secondary Learning Disabled	5 quarter hours

SPECIAL EDUCATION (SE) COURSES

SE 301 Introduction to the Exceptional Child. A general survey course which addresses etiology, identification, incidence, curriculum modification, parent interaction and mainstreaming of exceptional children. Required of all teacher-education majors.

5 quarter hours

SE 302 Language Development. An analysis of the language including phonology, syntax, and semantics with emphasis on school applications in reading, grammar, spelling and composition.

5 quarter hours

SE 320 Learning Disabilities: Theories and Issues. A course designed to help the student become familiar with the background theories, current questions, and possible solutions in the field of learning disabilities includes field experience. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

SE 330 Planning Curriculum and IEP's for the Learning Disabled. This course will develop a knowledge of educational taxonomies and skills in selecting and developing instructional sequences, selecting and writing appropriate objectives in an individualized educational program, and evaluating those objectives through the use of teacher-made mastery assessments. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

SE 331 Psychology of Mental Retardation. A course designed to help the student become familiar with the characteristics, developmental stages, and educational needs of the mentally retarded. Includes field experience. Prerequisite: Admissions to the Teacher Education Program.

5 quarter hours

SE 400 Classroom Management and Discipline. A course designed to develop an understanding of classroom dynamics and the skills to deal effectively with a variety of discipline and management problems. Includes field experience. Prerequisite: Admissions to the Teacher Education Program

5 quarter hours

SE 410 Assessment of Exceptional Children. A course designed to develop and understanding of assessment principles and purposes; it will also develop skill in administering a variety of educational diagnostic tests and procedures. Prerequisite: Admission to the Teacher Education Program

5 quarter hours

SE 420 Alternative Instructional Strategies. A course designed to provide the pre-service teacher with alternative corrective procedures for a variety of presenting academic and social problems. Includes field experience. Prerequisite: all other reading and math coursework ED 324, ED 424, ED 333, ED 323 and Admission to the Teacher Education Program.

5 quarter hours

SE 430 Advanced Diagnostic and Implementation Strategies. A course designed to develop expertise in test administration, diagnosis of problems, and setting up instructional strategies for a variety of students in a simulated school setting. This course should be taken prior to actual internship. Includes field experience. Prerequisite: all other coursework except SE 413 and ED 488 and Admission to the Teacher Education Program. May be taken concurrently with SE 422. 5 quarter hours

SE 440 Meeting the Needs of the Secondary Learning Disabled. A course designed to develop an understanding of the learning disabled adolescent. It will stress an appreciation of the adolescent's academic, social, and vocational need. Includes field experience. Prerequisite: Admission to the Teacher Education Program. 5 quarter hours

SE 441, 442, 443, 444 Special Topics in Special Education. To be offered on occasion of student demand or need. 1-5 quarter hours

SE 450 Professional Development Seminar. This course is designed to improve the skills of the individual student prior to the student internship. It is based on a clinical teaching model and allows the professor and student to select from a variety of options (e.g. advanced research skills, remedial composition skills, public speaking skills) the approach necessary to strengthen and advance the individual student's professional development. Includes field experience. Prerequisite: Admission to the Teacher Education Program.

5 quarter hours

SE 460 Directed Study/Research in Special Education. To be offered on occasion of student demand or need.

1-5 quarter hours

SE 470 Parent and Professional Conferencing Techniques. A course designed to help the prospective educator develop communication skills and ethical standards in communicating programs and

problems of the exceptional learner to parents, professionals and other appropriate personnel. May be taken concurrently with ED 488. Prerequisite: Admission to the Teacher Education Program.
5 quarter hours

SECONDARY TRADE AND INDUSTRIAL EDUCATION TEACHER TRAINING PROGRAM

Students who have completed a technical program of six quarter length or who have completed six years of compensated work experience and who have successfully completed the NOCTI or an equivalent competency examination may prepare to become a Trade and Industrial Teacher in the secondary schools by completing the following program. Students who do not possess such competency are not admissible.

Bachelor of Science in Education - Secondary Trade and Industrial Education Major

Program components for the Bachelor of Science in Education with a major in Secondary Trade and Industrial Education include:

1. General and Professional education requirements for the degree and applicable general college requirements and conditions for graduation.

2. Technical Training (up to sixty-five quarter hours maximum credit). All work experience credit must be validated by successful completion of the NOCTI or an equivalent examination of competency.

3. General Education Requirements include:

English Composition	10 quarter hours
Science (To include both Biological and Physical)	20 quarter hours
Economics	5 quarter hours
Mathematics	5 quarter hours
History	5 quarter hours
Psychology	5 quarter hours
Literature	10 quarter hours
Social Science Elective	5 quarter hours
Speech	5 quarter hours
*Health Education	1-4 quarter hours
*Physical Education	1-4 quarter hours

For a combined total of five quarter hours.

4. Professional Education Requirements include:

ED 300 Foundations of Education	5 quarter hours
ED 333 Teaching Reading in the Content Area	5 quarter hours

ED 486 Internship in High School Education	5 quarter hours
MG 348 Manpower and Labor Economics	5 quarter hours
PS 334 Adolescent Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours
VE 302 Foundations of Vocational and Technical Education	5 quarter hours
VE 432 Methods of Teaching Vocational and Technical Education	5 quarter hours
VE 433 Materials of Teaching Vocational and Technical Education	5 quarter hours
VE 434 Occupational Analysis and Curriculum Development in Vocational and Technical Education	5 quarter hours
VE 435 Industrial and Shop Safety	5 quarter hours
VE 436 Vocational Information and Guidance	5 quarter hours
VE 438 Shop Organization and Management	5 quarter hours
VE 439 Youth Organization and Advisory Committees	5 quarter hours
VE 440 Testing and Evaluating in Vocational Education	5 quarter hours
VE 445 Functions of the Coordinator	5 quarter hours

5. At least three years compensated work experience in the technical specialty is required for those who have completed a formal postsecondary technical training program; those who have not completed the formal technical training must have completed six years compensated work experience in the technical specialty.

VOCATIONAL AND TECHNICAL EDUCATION

The Division of Education offers a program designed to prepare nstructors to serve in the trade and industrial areas of instruction in technical colleges, institutes, military installations and schools. Admission to the program is dependent upon the student's validation of an acceptable trade or technology as noted by the Department of Labor job code. A student who does not possess such technology may not enter the program. These program do not lead to Class B, Secondary Professional Certification, but do lead to Type II or Type I Certification.

Bachelor of Science in Education - Vocational and Technical Education Major

Program components for the Bachelor of Science in Education with a major in Vocational and Technical Education include:

1. General and Professional education requirements for the degree and applicable general college requirements and conditions for graduation.

2. Technical Training (up to 65 quarter hours maximum credit.) All work experience credit must be validated by the NOCTI or another comparable examination of competency.
3. General Education requirements include:

English Composition	10 quarter hours
Mathematics	5 quarter hours
Science (One may be an approved Computer Science)	10 quarter hours
Economics	5 quarter hours
History	5 quarter hours
Sociology	5 quarter hours
Speech	5 quarter hours
Literature	10 quarter hours
American History	5 quarter hours
Social Science	5 quarter hours
Psychology	5 quarter hours

4. Professional Education requirements include:

ED 300 Foundations of Education	5 quarter hours
PS 334 Adolescent Psychology **or** PS 335 Adult Psychology	5 quarter hours
SE 301 Introduction to the Exceptional Child	5 quarter hours
VE 302 Foundations of Vocational Education	5 quarter hours
VE 432 Methods of Teaching Vocational and Technical Education	5 quarter hours
VE 433 Materials of Teaching Vocational and Technical Education	5 quarter hours
VE 434 Occupational Analysis and Curriculum Development in Vocational and Technical Education	5 quarter hours
VE 483, 484, 485 Practicum in Teaching Vocational and Technical Education (In-Service)	
VE 487 Internship in Vocational and Technical Education (Pre-Service)	15 quarter hours

5. At least three years compensated work experience in the technical specialty is required for those who have completed a formal postsecondary technical training program; those who have not completed the formal technical training must have completed six years compensated work experience in the technical specialty.

Bachelor of Science in Education - Instructor/Staff Development in Vocational and Technical Education

Program components for the Bachelor of Science degree with an emphasis in Vocational and Technical Education include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.

2. Technical Training (up to 74 quarter hours maximum credit.) All work experience credit must be validated by the NOCTI or another comparable examination of competency.
3. General Education requirements include:

English Composition	10 quarter hours
Humanities Electives	20 quarter hours
Social Science Electives	10 quarter hours
Behavioral Science Elective	10 quarter hours
Science (May include one approved Computer Science elective)	15 quarter hours
Mathematics	5 quarter hours
Adult Psychology	5 quarter hours

4. Technical Training requirements include:

Completion of one or more of the technical courses listed below:

241E SSM Sergeant	23N20 Nike
241F SSM Pershing	23Q20 Hawk
251B SSM Nike	24J20 Hawk
251C SAM Hawk	24K20 Hawk
260A Nuclear Weapons	24L20 Hawk
21L20 Pershing	27B20 Land Combat
22K20 Hawk	27E20 Wire Guided
22L20 Nike	27E20 Light Air Defense

5. Vocational Education courses required include:

ED 300 Foundations of Education	5 quarter hours
VE 302 Foundations of Vocational & Technical Education	5 quarter hours
VE 432 Methods of Vocational Technical Education	5 quarter hours
VE 433 Materials in Vocational Technical Education	5 quarter hours
VE 434 Occupational Analysis	5 quarter hours
VE 438 Shop Organization & Management	5 quarter hours
VE 440 Testing & Evaluation in Vocational Education	5 quarter hours
VE 446 Individualizing Instruction in the Vocational & Technical Programs	5 quarter hours
VE 483, 484 or 485 Practicum in Teaching Vocational and Technical Education (In-Service)	5 quarter hours

VOCATIONAL AND TECHNICAL (VE) COURSES

VE 259 Basic Technical Specialty. (0-65 quarter hours): This course number designates credit awarded for the journeyman level training in a technical specialization area when validated by completion of a nationally recognized competency examination.

VE 279 Transfer Credit in Vocational & Technical Specialization Area. (O-65 quarter hours credit): This course number designates transfer credit for any vocational, career or technical course from postsecondary vocational schools, technical colleges, technical institutes or any of the approved military programs and other schools. (May not be granted concurrently with VE 259.)

VE 302 Foundations of Vocational and Technical Education. A course designed to relate the development of vocational and technical education from historic apprenticeships to contemporary vocational and technical programs. Philosophies and principles of vocational and technical education are also reviewed.
5 quarter hours

VE 432 Methods of Teaching Vocational and Technical Subjects. A review of teaching strategies, procedures, audio-visual laboratory and concrete experiences which may be used to develop specific performance objectives for instruction. Laboratory experiences are included. 5 quarter hours

VE 433 Materials in Vocational Education. Includes teaching devices and methods of application; desirable teaching facilities; motivation and development of skill, reasoning qualities, lesson planning; shop organization and management. 5 quarter hours

VE 434 Occupational Analysis and Curriculum Development in Vocational and Technical Education. A course designed to provide a knowledge of the problems, techniques, and procedures in the selection and organization of subject matter for instructional purposes. Each student is required to develop a two-year vocational curriculum suitable for implementation in vocational schools.
5 quarter hours

VE 435 Industrial and Shop Safety. Identifies potential safety hazards as they pertain to vocational education shops in the schools and industrial shops. Accident prevention techniques are provided. OSHA is introduced to the student in his or her area of skill concentration. 5 quarter hours

VE 436 Vocational Information Guidance. An introductory course in vocational guidance to provide the principles and techniques necessary to organize and operate vocational guidance services within the public school. 5 quarter hours

VE 438 Shop Organization and Management. Provides a knowledge of the problems, techniques, and procedures used to maintain and manage vocational and industrial shops for instructional purposes or for manufacturing. Deals with the organization, management, and care of shops. 5 quarter hours

VE 439 Youth Organizations and Advisory Committees. Describes the procedures for establishing, implementing and operating student organizations and advisory committees. 5 quarter hours

VE 440 Testing and Evaluation in Vocational Education. Describes the evaluation standards for vocational skills courses and lecture courses with emphasis on the open entry concept.

5 quarter hours

VE 441, 442, 443, 444 Special Topics in Vocational Education. To be offered on occasion of student demand or need.

1-5 quarter hours

VE 445 Functions of the Coordinator. Prepares the student for identifying and administering the various programs in vocational education that are of a cooperative nature. 5 quarter hours

VE 446 Individualizing Instruction in the Vocational and Technical Programs. A study of instructional strategies and procedures for meeting the individual needs of students. 5 quarter hours

VE 450 A, B, C, Practicum I, II, III in Advanced Technical Studies. Individually designed laboratory studies in the state of the art of a variety of technologies. Prerequisite: Must be in-service teacher.

5-15 quarter hours

VE 459 Advanced Vocational and Technical Specialty (0-20 quarter hours). This course number designates credit that is to be awarded for advanced industrial or educational work experience (Non-teaching) in the specialization area. No credit will be granted for work experience which does not exceed in responsibility the original level of training.

VE 460 Directed Study/Research in Vocational Education. To be offered on occasion of student demand or need.

1-5 quarter hours

VE 461 Related Training in Vocational Education. A course designed to include attendance at an approved industrial, company-operated school for the purpose of providing the vocational teacher with advanced related technical training. This course is open to qualified teachers or individuals preparing to enter this field of teaching. Detail planning for each course session will be conducted by a team of postsecondary trade and industrial teachers from throughout the state, Academic Deans of Technical Colleges, Presidents of Technical Colleges, State Department Representatives and the academic personnel of the college. Planning relates to ED 460 also.

5 quarter hours

VE 469 Vocational and Technical Specialty (Training Experience 0-10 quarter hours.) Five quarter hours credit may be awarded for each year of documented vocational specialty teaching experience verified by the director or supervisor in vocational and technical school. A limit of ten quarter hours credit is granted. Only five quarter hours may be earned for a 12-month period. This teaching experience must have been supervised and evaluated and may be from an approved military school, industrial and business school,

proprietary school, or public vocational school at either the secondary or postsecondary level. (Limited to In-service teachers.)

VE 483, 484, 485 Practicum in Teaching Vocational and Technical Education (In-service.) A series of studies designed to expand the current teaching skills of in-service teachers of technical subjects. These courses may not be substituted.

5 quarter hours each

VE 487 Internship in Vocational and Technical Education (Pre-Service). A course which provides an opportunity for prospective teachers to observe and implement instruction in a technical college setting under the guidance of a competent critic/teacher. Participation in the full school program is required.

15 quarter hours

ACADEMIC UNIT	DEPARTMENT	DEPARTMENTAL MAJOR OR MINOR	Degree Option			
			B.A.	B.S.	B.S. Ed.	Minor
HUMANITIES	ART	Art	•			•
	ENGLISH	English	•		•	•
		Language Arts			•	•
	MUSIC	Music				•
	RELIGION AND PHILOSOPHY	Religion	•			•
		Religion and Philosophy	•			•
		Philosophy				•
SOCIAL SCIENCE		Social Science			•	
	HISTORY	History	•		•	•
	POLITICAL SCIENCE	Political Science	•	•	•	•

DIVISION OF HUMANITIES AND SOCIAL SCIENCES

Mildred W. Caudle, Ph.D., Division Head

The following academic units and their respective departments are included within the Division of Humanities and Social Sciences: (Art, English, Humanities, Music, Religion and Philosophy); Social Science (History, Political Science, Geography and Anthropology);

Both the organization of the Division of Humanities and Social Sciences by academic unit and department, and information relative to degree options, majors, and minors, are summarized in the preceding chart. An asterisk(*) is used to designate the degree option(s) for a particular major and to indicate that a department offers a minor. The summary reflects the same order used to arrange this section of the catalog. For information regarding a particular departmental major or minor, the student is referred to that department's catalog description. Additional information is available through the coordinator whose name appears at the beginning of each academic unit section.

It is the student's responsibility to comply with the requirements for a particular major sponsored by the Division of Humanities and Social Sciences. Under no circumstances are alterations of a particular curriculum permitted without prior approval of the student's faculty advisor, the Academic Unit Coordinator, the Division Head, and the Academic Dean (see Adjustment of Curriculum page 27 of this catalog.)

HUMANITIES

Curtis D. Coleman, D.Min., Coordinator

The Humanities academic unit, with departments in Art, English, Music, Religion and Philosophy offers majors leading to the Bachelor of Arts degree. Minors are offered by each department. In cooperation with the Division of Education, Humanities offers majors leading to the Bachelor of Science in Education degree in English and in Language Arts. Additionally, the unit coordinator and Academic Dean may develop special Bachelor of Arts degree programs for students with unique educational backgrounds and objectives.

Approved Humanities Electives

Only those Art, English, and Music courses marked by an asterisk (*) will serve as the Humanities electives required for the Bachelor of Arts or the Bachelor of Science degrees. Additional Humanities electives, also marked by an asterisk (*), appear in the Religion and Philosophy sections of this catalog.

ART (AR)

The purpose of the Art Department is to create an atmosphere and structure conducive to the self-growth of artists and to provide enriching experiences in the visual arts to non-art majors.

The Art major includes courses in drawing, painting, sculpture, design, and art history. In addition, the Department offers enrichment courses in ceramics, drawing, painting, photography, and the visual arts for non-majors.

Bachelor of Arts - Art Major

Program components for the Bachelor of Arts degree with a major in Art include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. A minimum of sixty quarter hours of Art coursework, at least twenty-five quarter hours of which must be taken at Athens State College.
3. The major must include the following courses or their equivalent:

AR 311 Landscape Painting and Drawing	5 quarter hours
AR 312 Figure Drawing	5 quarter hours
AR 314 Painting in Water Media	5 quarter hours
AR 317 Ceramic Sculpture	5 quarter hours
AR 418 Art Studio	5 quarter hours
AR 423 History of Modern Art	5 quarter hours
AR 424 Late Modern Art History	5 quarter hours
AR 430 Advanced Drawing and Design	5 quarter hours

4. All students declaring Art as a major or minor will be required to demonstrate proficiency in drawing and design.
5. A minor is required.

ART MINOR

A minor in Art consists of thirty quarter hours of Art coursework, including the following courses or their equivalent:

AR 312 Figure Drawing	5 quarter hours
AR 423 History of Modern Art	5 quarter hours
AR 424 Late Modern Art History	5 quarter hours
AR 430 Advanced Drawing and Design	5 quarter hours

ART (AR) COURSES

***AR 300 Drawing.** An introduction to drawing techniques with emphasis upon developing drawing skills, perceptual abilities and the ability to think visually and critically. The course includes the history of drawing.

5 quarter hours

***AR 301 Painting.** An introduction to basic oil painting theory and techniques and a study of the history of painting. Museum visits and critiques will be included.

5 quarter hours

AR 309 Materials and Methods of Art in Elementary School. A course designed to prepare the classroom teacher in the basics of Art education theory and practice; to give the classroom teacher experience with and confidence in his or her ability to use art materials and to lead the students in art activities; to arrive at a philosophy of Art education; to learn to plan, motivate and evaluate art experiences; and to learn the relationship between the child's development and his visual representation.

5 quarter hours

AR 311 Landscape Painting and Drawing. Man's environment as a subject for drawing and painting in a variety of media. Direct study from nature. The history of landscape painting will be covered.

5 quarter hours

AR 312 Figure Drawing. Emphasis upon the human figure as subject for drawing techniques. 5 quarter hours

AR 313 Portrait Drawing and Painting. Using a variety of media to develop skills in portraiture. 5 quarter hours

AR 314 Painting in Water Media. Using transparent and opaque water color techniques. 5 quarter hours

***AR 315 Ceramics I.** An introduction to basic ceramic techniques with emphasis upon hand-constructed ceramics. The course will include a study of the history of ceramics.

5 quarter hours

AR 316 Ceramics II. Emphasis upon developing the student's skills in using the potter's wheel and in using hand-building methods to create personal forms and imagery. 5 quarter hours

AR 317 Ceramic Sculpture. An exploration of clay and terra cotta as sculptural media. 5 quarter hours

***AR 330 Photography I.** An exploration of basic techniques in photography with emphasis upon creativity. The course will include the history of photography and its relationship to technology and other arts. Museum visits and critiques are included.

5 quarter hours

AR 331 Photography II. Advanced theory and practice in photography.

5 quarter hours

***AR 340 The Visual Arts.** An analysis and examination of the visual arts in terms of both stylistic development and the relationship between the visual arts and other humanistic endeavors. The development of art from pre-history to the 20th century. Students will have studio experiences and be required to make museum visits.

5 quarter hours

AR 401 Advanced Figure Drawing. A continuation of Figure Drawing, building on the techniques learned in AR 312 to create a finished product. Prerequisite AR 312. 5 quarter hours

AR 408 Printmaking. Development of techniques in various print media.

5 quarter hours

AR 410 Layout and Design. Concepts will be covered from visualizations through finished projects. Problems in composition in commercial as well as fine arts projects will be assigned. This course is designed to produce a portfolio of finished projects. Lab included. Prerequisite: Associate Degree in Art or equivalent.

5 quarter hours

AR 411 Airbrush. Students will develop competence in airbrush for commercial as well as fine arts applications. Lab included. Prerequisite: Permission of instructor.

5 quarter hours

AR 418, 419, 420 Art Studio. Working with a selected professor, the student will define and explore a creative project. Student will be allowed to determine the direction of his or her own project. Prerequisite: Art major/minor. 5 quarter hours each

***AR 423 History of Modern Art.** The post-impressionist period through 1945. 5 quarter hours

***AR 424 Late Modern History.** 1945 to present. 5 quarter hours

AR 430 Advanced Drawing and Design. Advanced concepts in drawing and composition. 5 quarter hours

AR 441, 442, 444 Special Topics in Art. To be offered on occasion of student demand or need.

1-5 quarter hours

AR 450 Internship in Art. An internship program in which the student will receive training with a commercial enterprise relating to his or her area of experience. 5-15 quarter hours

AR 460 Special Workshops in Arts and Crafts. 1-5 quarter hours

ENGLISH (EH)

English as an academic field encompasses both theory and practice in the reading and interpreting of literature and in written and oral communication. All courses are designed to engage the intelligence, excite the imagination, improve the scholarship, and increase the enjoyment of literature and language. Appropriate transferred courses may be substituted, when so evaluated, for listed required courses.

Bachelor of Arts - English Major

Program components for the Bachelor of Arts degree with a major in English include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. At least fifty-five quarter hours of English coursework.
3. The major must include the following courses:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Speech	5 quarter hours
EH 312 Dramatic Literature	5 quarter hours
EH 414 History of the English Language	5 quarter hours
EH 425 Shakespeare: the Sonnets and the Plays	5 quarter hours
EH 431 Poetry	5 quarter hours
EH 433 Fiction	5 quarter hours

At least one five quarter hour elective must be chosen from the following courses:

EH 304 Southern Literature
EH 307 Major Authors I
EH 308 Major Authors II
EH 310 Film
EH 315 Science Fiction
EH 320 Advanced Grammar
EH 325 Myth and Folklore in Literature 5 quarter hours

4. A minor is required.

Bachelor of Science in Education - English Major

Program components for the Bachelor of Science in Education degree with a major in English include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. The major must include the following courses:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Speech	5 quarter hours
EH 312 Dramatic Literature	5 quarter hours
EH 320 Advanced Grammar	5 quarter hours
EH 414 History of the English Language	5 quarter hours
EH 425 Shakespeare: the Sonnets and the Plays	5 quarter hours
EH 431 Poetry	5 quarter hours
EH 433 Fiction	5 quarter hours

At least one five quarter hour elective must be chosen from among the following courses:

EH 304 Southern Literature
EH 307 Major Authors I
EH 308 Major Authors II
EH 310 Film
EH 315 Science Fiction
EH 325 Myth and Folklore in Literature 5 quarter hours

4. A second approved teaching major is required.

Bachelor of Science in Education - Language Arts Major

Program components for the Bachelor of Science in Education with a major in Language Arts include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. The major must include the following courses:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Speech	5 quarter hours
EH 303 Journalism	5 quarter hours
EH 311 Drama Production	5 quarter hours
EH 312 Dramatic Literature	5 quarter hours
EH 320 Advanced Grammar	5 quarter hours

EH 400 Oral Interpretation/Speech	5 quarter hours
EH 414 History of the English Language	5 quarter hours
EH 425 Shakespeare: the Sonnets and the Plays	5 quarter hours
EH 431 Poetry	5 quarter hours
EH 433 Fiction	5 quarter hours

At least two five quarter hour electives must be chosen from among the following courses:

EH 304 Southern Literature	
EH 307 Major Authors I	
EH 308 Major Authors II	
EH 310 Film	
EH 315 Science Fiction	
EH 325 Myth and Folklore in Literature	10 quarter hours

4. A second approved teaching major is **not** required.

ENGLISH MINOR

A minor in English consists of thirty-five quarter hours of English coursework including the following courses or their equivalent:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
EH 414 History of the English Language	5 quarter hours
EH 425 Shakespeare: the Sonnets and the Plays	5 quarter hours
EH 431 Poetry	5 quarter hours

ENGLISH (EH) COURSES

EH 303 Journalism. Designed to fullfill requirements for Language Arts majors. Study and practical experience with journalistic principles, processes, and practices of the news media, utilizing media outlets both in schools and in the community with special emphasis on work with school pullications, Instructor's permission required. Will not satisfy literature requirement.

5 quarter hours

***EH 304 Southern Literature.** An appreciative and critical survey of the body of fine literature written by and about residents of the American South, with a concentration on such writing in the twentieth century. Oral and written student response.

5 quarter hours

EH 305/306 Advanced Composition. Study of the basic techniques of written expression and consistent student practice in expository writing and in the improvement of that writing. Will not satisfy literature requirement

5 quarter hours each

*EH 307 Major Authors (Ancient to Renaissance). A survey of contributions to western civilization by the great writers of ancient and medieval times, including such masterpieces as the *Old Testament*, *The Iliad and The Odyssy*, *Greek* drama, *The Divine Comedy*, and *The Canterbury Tales*. *Oral and written student contribution.*

5 quarter hours

*EH 308 Major Authors (Renaissance through Modern). A survey of contributions to western civilization made by the great writers of the sixteenth through the twentieth centuries, beginning with Shakespeare and ending with contemporary writers. Oral and written student contributions. No prerequisites.

5 quarter hours

*EH 310 Film: History, Development, and Evaluation. The history and development of the film as literature and as a particularly American Art form, and the student practice in critical evaluation. Films will be viewed and read about, especially those based on literary sources, and students will perform oral and written criticism of them.

5 quarter hours

EH 311 Drama Production. Designed to fulfill requirements for Language Arts majors. Study and practical experience in producing and directing, or otherwise actively participating in stagecraft in school or community theatre. An opportunity exists for qualified students to study with the Alabama Shakespeare Festival Theatre. Permission required. Will not satisfy literature requirement.

1-5 quarter hours

*EH 312 Dramatic Literature. Selected studies in drama, from classical through contemporary, the study designed to provide a wide familiarity with dramatic literature with a close study of specific plays. Oral and written student response. 5 quarter hours

*EH 315 Science Fiction. Study of speculative fiction which is of recognized literary value and based on sound science and technology, particularly the short works in this category written in the second half of the twentieth century. Written and oral student analysis.

5 quarter hours

EH 320 Advanced Grammar. A teaching oriented course, utilizing both traditional standard grammar and linquistics-based grammatical systems. Includes vocabulary development and practice in expository writing and analysis. Will not satisfy literature requirement.

5 quarter hours

*EH 325 Myth and Folklore in Literature. A study of the basic myths of civilization and their impact on the literature and thought of the

Western World. Special emphasis of the Greek/Roman, Egyptian, and Teutonic mythology and on American Folklore.

5 quarter hours

EH 400 Oral Interpretation/Speech. Study and practice designed to increase the ability to interpret literature dramatically and effectively to others. Includes practice in individual public speaking, interpersonal communication, and small group dynamics. Will not satisfy literature requirement.

5 quarter hours

EH 414 History of the English Language. The development of American English from early and medieval British beginnings to the current linguistic standards and variations. Designed to increase ease of use, vocabulary, and appreciation of the English language. Analytical writing required. Will not satisfy literature requirement.

5 quarter hours

***EH 425 Shakespeare: The Sonnets and the Plays.** Designed to provide familiarization with the range of Shakespeare's work as well as close critical appreciation of certain sonnets and plays.

5 quarter hours

***EH 431 Poetry.** Critical evaluation, interpretation, and enjoyment of the qualities of poetry, as well as of specific poems. Particular emphasis on those of American and British origin - familiar, traditional, and contemporary. Written creative and critical response.

5 quarter hours

***EH 433 Fiction.** Study of a wide range of fiction, in the study of one novel and several selected short stories. Study is designed both to increase enjoyment of fiction and to develop analytical and evaluative reading skills, both oral and written.

5 quarter hours

EH 441, 442, 443, 444 Special Topics in English. To be offered on occasion of student demand or need.

1-5 quarter hours

EH 460 Directed Study in English. A special research or creative writing course designed to meet specific needs and interest. Prior approval required. Will not meet literature requirement.

1-5 quarter hours

HUMANITIES

Humanistic content and humanistic methods are emphasized in the courses constituting the Humanities discipline. Particular attention is given to the study of language, to the application of the humanities to the human environment, and to the relevance of the humanities to current conditions of national life.

HUMANITIES (HU) COURSES

***HU 311 Beginning French Conversation I.** Designed for students with no previous expertise in French, this course is intended to enable the student to recognize and speak French in a practical manner. Emphasis is given to language skills necessary for the conduct of business and for successful mobility in French speaking countries.
5 quarter hours

***HU 312 Beginning French Conversation II.** A continuation of Beginning French Conversation I, this course is intended to enhance the student's ability to recognize and speak French in a practical manner. Emphasis is given to language skills necessary for the conduct of business and for successful mobility in French speaking countries. 5 quarter hours

***HU 313 Beginning Spanish Conversation and Culture I.** Designed for students with no previous expertise in Spanish, this course is intended to enable the student to recognize and speak Spanish in a practical manner. Emphasis is given to language skills necessary for the conduct of business and for successful mobility in Spanish speaking countries.
5 quarter hours

***HU 314 Beginning Spanish Conversation and Culture II.** A continuation of Beginning Spanish Conversation I, this course is intended to enhance the student's ability to recognize and speak Spanish in a practical manner. Emphasis is given to language skills necessary for the conduct of business and for successful mobility in Spanish speaking countries. Prerequisite HU 313 or equivalent.
5 quarter hours

***HU 315 Beginning Japanese Language and Culture I.** Designed for students with no previous familiarity with Japanese. This course is intended to enable the student to recognize and speak basic Japanese and to gain an appreciation of Japanese culture. Emphasis is on language skills necessary for the conduct of business.
5 quarter hours

***HU 316 Beginning Japanese Language and Culture II.** A continuation of Beginning Japanese Language and Culture I. This course is designed to enhance the student's ability to recognize and speak Japanese in a practical manner and to expand the students knowledge and appreciation of Japanese culture. Emphasis is on the language skills necessary for the conduct of business.
5 quarter hours

***HU 321 Library Resources and Research.** Introduction to the effective utilization of libraries, reference materials of specific disciplines, and efficient methods of research. 1 quarter hour

***HU 330 Landmarks of Civilization I.** Classical World to Renaissance. A review of selected examples of man's creative achievements in drama, literature, philosophy, art and music. This course is designed to demonstrate the integration of human knowledge. Stresses expository writing and critical thinking. Occasional lab time is required. No prerequisities.

5 quarter hours

***HU 340 Landmarks of Civilization II.** Renaissance to Present. A review of selected examples of man's creative achievements in drama, literature, philosophy, art and music. This course is designed to demonsrate the integration of human knowledge. Stresses expository writing and critical thinking. Occasional lab time is required. No prerequisites.

5 quarter hours

MUSIC

The courses offered in Music serve three primary objectives: (1) to offer courses and musical experiences leading to a minor for Bachelor of Arts and Bachelor of Science degree students; (2) to offer electives for students who desire music or humanities elective credit; and (3) to enrich the cultural life of the college and the community.

MUSIC MINOR

The minor in Music requires thirty quarter hours credit, at least fifteen quarter hours of which must be taken at Athens State College, and must include the following courses:

MU 300/301/302 Music Theory	3 quarter hours each
MU 304/305/306 Aural Musicianship	1 quarter hour each
MU 321 Music Literature	5 quarter hours
Applied Music (Piano and/or Voice)	1-2 quarter hours each
Music Ensemble at Athens State College each quarter (for credit or non-credit)	1 quarter hour each

MUSIC (MU) COURSES

MU 300/301/302 Music Theory. A course presenting the fundamentals of music theory including scales, modes, intervals, key signatures, triads in fourpart writing, sightsinging, ear-training, and keyboard harmony. This course or the equivalent is required of all music minors. Permission of the professor required. Co-requisite: MU 304/305/306. 3 quarter hours each

MU 304/305/306 Aural Musicianship. Required of all music minors who study theory unless exempted by a proficiency test. Instruction in

rhythmic, intervallic, melodic and harmonic dictation; sightsinging. Co-requisite: MU 300/301/302. 1 quarter hour each

*MU 310 Music Appreciation. A survey of music designed to prepare the student for more intelligent listening to and appreciation of serious music. No technical background is necessary. 5 quarter hours

*MU 321/322 Music Literature. A study of the development of the significant musical styles with special attention to the individual contributions of major composers. 5 quarter hours each

MU 325 Conducting. A study designed to develop skills in conducting and score reading. Includes both baton and choral rehearsal techniques. 3 quarter hours

MU 329/330 Class Piano. Consists of class instruction in basic techniques of playing the piano. No previous technical experience required.

2 quarter hours each

MU 339/340 Class Voice. Consists of class instruction in the basic concepts in singing. Includes the study of proper tone production, breath control, and diction. 2 quarter hours each

MU 341 College Singers. A performing vocal ensemble open to all students. Provides for the study and performance of a variety of choral literature. At least two rehersals weekly are required.

1 quarter hour

MU 343 Choral Union. A smaller ensemble of mixed voices selected by audition. Open to all students.

1 quarter hour

MU 345 Selected Chorus. Offers an opportunity to study and perform choral literature for either women's or men's voices respectively. Open to all students.

1 quarter hour

MU 346 Instrumental Ensemble (band). The study and performance of selected literature for the smaller instrumental ensemble. Includes both jazz and pop music. Open to all students.

1 quarter hour

MU 410 Choral Techniques. A study in the refinement of choral techniques including blends, balance, choral tone, rehearsal techniques, and procedures. Includes a survey of choral literaure and helps in organizing and developing choral groups.

5 quarter hours

MU 441, 442, 443, 444 Special Topics in Music. To be offered on occasion of student demand or need.

1-5 quarter hours

MU 451 Materials and Methods of Teaching Music N - 6. A study to assist the classroom teacher in meeting the needs of pre-school and elementary students in music. A study of group activities and materials through which children can experience music.
5 quarter hours

MU 460 Music Drama Production. Special study in the preparation and presentation of musical productions. 1-5 quarter hours

APPLIED MUSIC
(Permission of Professor is required)

MU 371 - O	372 - O	373 - O	Private Organ	1 quarter hour
MU 471 - O	472 - O	473 - O	Private Organ	1 quarter hour
MU 371 - P	372 - P	373 - P	Private Piano	1 quarter hour
MU 471 - P	472 - P	473 - P	Private Piano	1 quarter hour
MU 371 - V	372 - V	373 - V	Private Voice	1 quarter hour
MU 471 - V	472 - V	473 - V	Private Voice	1 quarter hour
MU 381 - O	382 - O	383 - O	Private Organ	2 quarter hours
MU 481 - O	482 - O	483 - O	Private Organ	2 quarter hours
MU 381 - P	382 - P	383 - P	Private Piano	2 quarter hours
MU 481 - P	482 - P	483 - P	Private Piano	2 quarter hours
MU 381 - V	382 - V	383 - V	Private Voice	2 quarter hours
MU 481 - V	482 - V	483 - V	Private Voice	2 quarter hours

One half-hour weekly 1 quarter hour credit
One hour lesson weekly 2 quarter hours credit
(With professor's approval, these may be repeated for credit)

MUSIC ENSEMBLE
(Except Summer)

MU 341 College Singers 1 quarter hour
MU 343 Choral Union (permission of professor required) 1 quarter hour
MU 345 Selected Chorus 1 quarter hour
MU 346 Instrumental Ensemble 1 quarter hour

RELIGION (RE) AND PHILOSOPHY (PH)

The Department of Religion and Philosophy has two basic purposes:

1. To make its courses informative and enriching for all students who wish to know more of the Judeo-Christian tradition and other major religions of the world and who are interested in relating life to ultimate religious and philosophical concerns.
2. To give students who major in this department an educational foundation that will prepare them for successful graduate study or,

in the case of those who will not pursue a graduate degee, that will prepare them as thoroughly as a bachelor's program can accomplish for effective professional careers in vocations related to a religion and philosophy curriculum.

Approved Humanities Electives

Only those Religion and Philosophy courses marked by an asterisk (*) will serve as Humanities electives required for the Bachelor of Arts or the Bachelor of Science degree. Additional humanities electives, also marked by an asterisk (*), appear in the Art, English and Music sections of this catalog.

Bachelor of Arts - Religion Major

Program components for the Bachelor of Arts degree with a major in Religion include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. A fifty-five quarter hour major, including forty quarter hours of upper division courses, twenty-five quarter hours of which must be taken at Athens State College.
3. The courses required for the Religion major are as follows:

RE 301 Major Religions of the World	5 quarter hours
RE 320 Introduction to the *Old Testament*	5 quarter hours
RE 321 Introduction to the *New Testament*	5 quarter hours
RE 327 Sociology of Religion	5 quarter hours
RE 351 Christian Thought Today	5 quarter hours
RE 403 Religion in Life	5 quarter hours
RE 409 Christian Thought in Early Centuries	5 quarter hours
RE 414 History of Christianity	5 quarter hours
Religion Electives	15 quarter hours

4. PH 301 Introduction to Philosophy is also required but will not apply toward the major.
5. RE 330/331 Biblical Hebrew Grammar I and II and RE 340/341 *New Testament* Greek for Beginners I and II will not apply toward the major.
6. Religion courses accepted from non-accredited schools will serve only as general electives, will not apply toward Humanities or Social Science elective requirements, and will not apply toward the major.
7. A minor is required.

Bachelor of Arts - Religion and Philosophy Major

Program components for the Bachelor of Arts degree with a major in Religion and Philosophy include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.

2. A fifty-five quarter hour major, including forty quarter hours of upper division courses, twenty-five quarter hours of which must be taken at Athens State College. At least twenty quarter hours must be taken in each discipline.
3. The courses required for the Religion and Philosophy major are as follows:

PH 301 Introduction to Philosophy	5 quarter hours
PH 312 Logic	5 quarter hours
PH 321 History of Philosophy I	5 quarter hours
PH 322 History of Philosophy II	5 quarter hours
PH 325 Philosophy of Religion	5 quarter hours
RE 320 Introduction to the *Old Testament*	5 quarter hours
RE 321 Introduction to the *New Testament*	5 quarter hours

4. RE 330/331 Biblical Hebrew Grammar I and II and RE 340/341 *New Testament* Greek for Beginners I and II will not apply toward the major.
5. Religion courses accepted from non-accredited schools will serve only as general electives, will not apply toward Humanities or Social Science elective requirements, and will not apply toward the major.
6. A minor is required.

RELIGION AND/OR PHILOSOPHY MINOR

Thirty hours of Religion and/or Philosophy coursework constitutes a minor.

RE 330/331 Biblical Hebrew Grammar I and II and RE 340/341 *New Testament* Greek for Beginners I and II will not apply toward a minor.

Religion courses accepted from non-accredited schools will serve only as general electives, will not apply toward Humanities or Social Science elective requirements, and will not apply toward the minor.

RELIGION (RE) COURSES

***RE 301 Major Religions of the World.** A study of the principal non-Christian religions of the world in comparision with Christianity. 5 quarter hours

***RE 303 Current Religious Movements and Issues.** An examination of current religious issues and movements which are influential in the thought and practice of modern society. 5 quarter hours

***RE 312 History of Judaism.** Presents Judaism from the destruction of the Temple through medieval times. Examines the world of Talmud, Midrash, Response and the general Diaspora. Requires reading from historical and tenetial sources. 5 quarter hours

RE 313 Contemporary Judiasm. Presents movements in modern Judaism: orthodoxy, conservatism, reform and secularism. Explores Zionism in its modern association with nationalism. 5 quarter hours

*RE 314 **History of Islam.** Presents Islam from its beginning, in an historical, religious and geographical context, to its major geographical, doctrinal and sectarian spread internationally. 5 quarter hours

*RE 320 **Introduction to the** *Old Testament.* A study of Hebrew history and thought as recorded in the *Old Testament.* 5 quarter hours

*RE 321 **Introduction to the** *New Testament.* A study of the beginnings of the Christian faith and church as recorded in the *New Testament.* 5 quarter hours

*RE 325 **Philosophy of Religion.** A philosophical study of the grounds of religious belief and practice, the relationship of man to God and its implications for morality and the belief in life after death. Special attention is given to the impact of science upon religion. Also listed as PH 325. 5 quarter hours

*RE 327 **Sociology of Religion.** The interaction, interpretation, and interrelationships of religion, society, and individual morality in American religious behavior and institutions. Also listed as SO 327. 5 quarter hours

RE 330 **Biblical Hebrew Grammar I.** Inductive approach, utilizing the Biblical narratives, especially in Genesis and the Books of Kings. 5 quarter hours

RE 331 **Biblical Hebrew Grammar II.** Emphasis on conjugations, syntax, and morphology, Hebrew poetry and Hebrew narrative. 5 quarter hours

RE 340 **New Testament Greek for Beginners I.** Greek grammar utilizing *New Testament* vocabulary. 5 quarter hours

RE 341 **New Testament Greek for Beginners II.** Continuation of RE 340. 5 quarter hours

*RE 351 **Christian Thought Today.** A critical survey of three major trends in the interpretation of Christianity today: conservatism, liberalism and neo-Reformation thought. 5 quarter hours

*RE 403 **Religion in Life.** A study of Christian ethics which examines the meaning of righteousness in Christian context and its implications for decision-making in today's world. 5 quarter hours

*RE 409 **Christian Thought in Early Centuries.** A study of Christian thought in Jesus, Paul and other leaders in the first centuries. 5 quarter hours

*RE 412 **The Hebrew Prophets.** An inquiry into the origin, nature, and development of the Hebrew prophetic movement, and an examination of the lives, times, and messages of the latter *Old Testament* prophets. 5 quarter hours

***RE 413 The Wisdom and Devotional Literature of the Old Testament.** A historical and faith analysis of the Books of Job, Ecclesiastes, Song of Solomon, Proverbs, Psalms and other fourth and third century BC *Old Testament* writings. 5 quarter hours

***RE 414 History of Christianity.** A survey of the background and origin of the Christian movement and its development to the present time. 5 quarter hours

***RE 415 Religious Dimensions in Literature and the Arts.** A study of various theological themes as they appear in literature and the arts. 5 quarter hours

RE 441, 442, 443, 444 Special Topics in Religion. To be offered on occasion of student demand or need. 1-5 quarter hours

RE 460 Directed Study/Research in Religion. Open only to superior majors. May be repeated for up to ten additional hours of credit. 1-5 quarter hours

PHILOSOPHY (PH) COURSES

***PH 300 Moral Values in Today's Society.** A sociological approach to the study of morality combined with a philosophical examination of what moral value is and how moral values may be realized in today's society. Emphasis will be given to specific current moral issues. Also listed as SO 300. 5 quarter hours

***PH 301 Introduction to Philosophy.** An examination and evaluation of various answers to basic problems of philosophy. 5 quarter hours

***PH 312 Logic.** A course intended to help the student develop skill in detecting, identifying, and analyzing fallacious reasoning and implication in the mass media, literature, advertising, theater, philosophy, and religion. 5 quarter hours

***PH 321 History of Philosophy I.** A critical survey of the thought of major western philosophers from Thales to Descartes. 5 quarter hours

***PH 322 History of Philosophy II.** A critical survey of the thought of western philosophers from Descartes to the present time. 5 quarter hours

***PH 325 Philosophy of Religion.** A philosophical study of the grounds of religious belief and practice, the relationship of man to God and its implications for morality, and the belief in life after death. Special attention is given to the impact of science upon religion. Also listed as RE 325. 5 quarter hours

PH 441, 442, 443, 444 Special Topics in Philosophy. To be offered on occasion of student demand or need. 1-5 quarter hours

PH 460 Directed Study/Research in Philosophy. The student studies in an area of his or her particular interest approved by the instructor. Open only to superior students who have had at least fifteen hours of philosophy in the classroom. May be repeated for up to ten additional hours of credit. 1-5 quarter hours

GENERAL STUDIES PROGRAM

The General Studies program is designed to provide maximum flexibility in course selection for students with specific objectives in mind and for students who seek personal enrichment and fulfillment through collegiate study. While no specified major courses are required, the student must comply with all degree requirements for the Bachelor of Science Degree and satisfy all applicable general college requirements and conditions for graduation (page 26).

SOCIAL SCIENCE

Mildred H. Caudle, Ph.D., Coordinator

The social sciences include History, Political Science, Geography, and Anthropology. The Social Science academic unit offers majors leading to the Bachelor of Arts and the Bachelor of Science in Education degrees. Minors are offered in History and Political Science.

Pre-law students: There is no prescribed curriculum for admission to law school. The student should consult the catalog of the law school he or she plans to attend for specific admission requirements. For anticipated public employment, the student is advised to major in History, Behavioral Science, Political Science or Social Science.

Bachelor of Science in Education - Social Science Major

Program components for the Bachelor of Science in Education with a major in Social Science include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. The comprehensive program must include the following courses:

Western Civilization **or** Survey of American History	10 quarter hours
General Psychology	5 quarter hours
SS/EC 310 Basic Economics	5 quarter hours
HY/PO 300 Great American Issues	5 quarter hours
HY/SS 301 Social Science Research Techniques and Methods	5 quarter hours
HY 303 Alabama History	5 quarter hours
HY 400 Colonial and Revolutionary America	5 quarter hours
GO 309 World Regional Geography	5 quarter hours
SO 361 Social Analysis	5 quarter hours
PH 301 Introduction to Philosophy	5 quarter hours

Choose at least ten quarter hours from the following:

PO 303 Comparative State and Urban Government	
PO 453 International Politics	
HY/PO 456 America and the World	10 quarter hours

Choose at least five quarter hours from the following:

SS/EC 321 Money and Banking	
SE/EC 322 Macroeconomics for Management	
SS/EC 323 The Economics of the Firm	5 quarter hours

Choose at least five quarter hours from the following:

GO/EC 311 Economic Geography	
GO 320 Anglo-American Geogaphy	5 quarter hours

Choose at least five quarter hours from the following:

SO 312 Majority/Minority Group Relations
SO 362 Deviant Social Behavior 5 quarter hours

4. A second approved teaching major is **not** required.
5. A minor is **not** required.

SOCIAL SCIENCE (SS) COURSES

SS 300 Principles of Social Science. A comprehensive course designed to explore the philosophies and concepts upon which the social sciences are based. Includes History, Psychology, Sociology, Political Science and Philosophy. Required of students seeking the Bachelor of Science in Education degree majoring in History, Political Science or Psychology. 5 quarter hours

SS 301 Social Science Research Techniques and Methods. A course designed to develop the techniques of social science research and to explore varying historical interpretations. Also aims at preparation of teaching materials. Required of history and social science majors. Should be taken at the beginning of the junior year. Also listed as HY 301. 5 quarter hours

SS 310 Basic Economics. A one-quarter course that is a survey of economic principles. The course content is structured to meet the needs of both students who plan to take only one course in economics as well as students who plan to use the concepts presented as a prerequisite for further study in the areas of economics or business administration. Also listed as EC 310. 5 quarter hours

SS 321 Money and Banking. A study of how money, credit and interest rates affect the level of employment, production, and prices in the economy. Topics of study will include the Federal Reserve System, the operations of commercial banks, credit controls, the theory of income determination, as well as recent trends in banking. Prerequisite: Principles of Economics. Also listed as EC 321. 5 quarter hours

SS 322 Macroeconomics for Management. A one-quarter course that examines the determinants of aggregate economic activity. The emphasis of the course is on the impact of macroeconomics on managerial decision making. Also listed as EC 322, MG 322. 5 quarter hours

SS 323 The Economics of the Firm. A one-quarter course that analyzes the behavior of individual firms and households carrying on production or consumption. The material provides a practical examination of important microeconomic principles behind the operation of any modern business and explains the analytical tools used in making effective management decisions. Also listed as EC 323, MG 323. 5 quarter hours

SS 460 Directed Study/Research in Social Science. To be offered as needed.

1-5 quarter hours

HISTORY (HY)

The History faculty seeks to develop in its students an appreciation of our cultural heritage, an understanding of the world in which we live, and an awareness of the future. It strives to develop, in its majors, the research abilities necessary for graduate work.

Through service courses of interest to the non-major it makes the student aware of the cultural legacy from Europe, England, and the United States and affords an opportunity to study other areas of the world such as Latin America and the Middle East.

Bachelor of Arts - History Major

Program components for the Bachelor of Arts degree with a major in History include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. The major must include the following courses:

Western Civilization	10 quarter hours
Survey of American History	10 quarter hours
HY/SS 301 Social Science Research Techniques and Methods	5 quarter hours
HY 400 Colonial and Revolutionary America	5 quarter hours
One other course in American History	5 quarter hours
Two courses in European History	10 quarter hours

One of the following:
HY 323 Twentieth Century Latin America
HY/PO 354 Communist Area Studies
HY 435 The Middle East — 5 quarter hours

3. A minor is required.
4. The student should realize that for graduate school a reading knowledge of one or two languages is generally required.

Bachelor of Science in Education - History Major

Program components for the Bachelor of Science in Education degree with a major in History include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. The major must include the following coursework:

Western Civilization or Survey of American History	10 quarter hours
SS 300 Principles of Social Science	5 quarter hours
SS/HY 301 Social Science Research Techniques and Methods	5 quarter hours
HY 303 Alabama History	5 quarter hours
HY 400 Colonial and Revolutionary America	5 quarter hours
HY 403 Twentieth Century America	5 quarter hours
One of the following:	
HY 312 Revolutionary Europe	5 quarter hours
HY 313 Europe in the Victorian Age	
HY 314 Contemporary Europe	
History Elective (Must be HY 311 Dawn of Modern Europe for student who did not take Western Civilization.)	5 quarter hours

5. A second approved teaching major is required.
6. A minor is **not** required.

HISTORY MINOR

History is an approved area of study for a minor. The student is to complete at least thirty quarter hours of courses in History to include two of the following three courses:

HY 400 Colonial and Revolutionary America	5 quarter hours
HY 402 Civil War, Reconstruction, and Industrialization of America	5 quarter hours
HY 403 Twentieth Century America	5 quarter hours

plus one advanced History course in a History area other than American History.

HISTORY (HY) COURSES

HY 300 Great American Issues. Examines the development of the main social, economic, and political issues that have faced the United States in this century. Emphasis is on contemporary issues, such as the economy, environment, crime, minority groups, public welfare, education, war and energy. Also listed as PO 300.
5 quarter hours

HY 301 Social Science Research Techniques and Methods. A course designed to develop the techniques of social science research and to explore varying historical interpretations. Also aims at preparation of teaching materials. Required of history and social science majors. Should be taken at the beginning of the junior year. Also listed as SS 301.
5 quarter hours

HY 303 Alabama History. The history of Alabama and its Southern heritage from early times to the present. Study of present day problems and an examination of the space age as it has impacted on Alabama's development are included. 5 quarter hours

HY 310 Ancient World. A study of the ancient world from prehistoric times to the collapse of the Roman Empire. 5 quarter hours

HY 311 Dawn of Modern Europe. A study of the leading events, institutions, and contributions of the Middle Ages, surveyed as a background to the development of modern Europe. The major portion of the course is devoted to modern European trends such as the rise of the nation-state, the age of exploration, and the Renaissance and the Reformation movements. 5 quarter hours

HY 312 Revolutionary Europe. A study of the background and the events of the French Revolution and the Napoleonic Period (1715-1815.) Emphasizes the revolutionary background of the contemporary Western world. 5 quarter hours

HY 313 Europe in the Victorian Age. A study of the social, political, and industrial forces which shaped modern Europe in the century 1815-1914. 5 quarter hours

HY 314 Contemporary Europe. The social, political, and economic development of Europe in the twentieth century. 5 quarter hours

HY 321 History of England. A survey of English history from 55 B.C. to 1688. Encompasses political, constitutional, socio-economic and cultural-intellectual movements. 5 quarter hours

HY 322 History of England. A survey of English history from 1688 to the present. Encompasses political, constitutional, socio-economic, cultural-intellectual, and imperial movements.
5 quarter hours

HY 323 Twentieth Century Latin America. Covers the political, social, economic, and cultural developments of the Central and South American States. Spanish institutions and nineteenth-century trends pertinent to the modern development of these republics are considered. 5 quarter hours

HY 354 Communist Area Studies. Examines the history, geography, and current political systems in the Soviet Union, Eastern Europe, and Communist China. Some attention is given to Cuba and other small communist states. Also listed as PO 354. 5 quarter hours

HY 361 The South in United States History. A study of the South as a region. A survey of its historical, economic, and social development, and of the role of the South in United States History. 5 quarter hours

HY 400 Colonial and Revolutionary America. A survey of Anglo-American colonial history, revolutionary developments, and the writing and ratification of the Constitution of the United States. 5 quarter hours

HY 401 The Early American Republic. A survey of United States history from 1789 through 1836, with particular emphasis on political, constitutional, and economic development. 5 quarter hours

HY 402 Civil War, Reconstruction, and Industrialization of America. Causes, events and results of the Civil War, political, economic, and social aspects of reconstruction, industrialization, urbanization, rising demands for social justice, and the growing independence of the people of the United States are emphasized. 5 quarter hours

HY 403 Twentieth Century America. A survey of the political, social, cultural and economic developments in twentieth-century America. Emphasis is placed on the Progressive Movement, role of the United States in world affairs, post-World War I era, and developments since World War II. 5 quarter hours

HY 435 The Middle East. A survey of the historical and cultural characteristics of those countries from Mauritania and Morocco to Afghanistan. Emphasis is placed on the historical development and Arabization of the region, current socio-economic problems, the strategic significance of the area, and its relations to the rest of the world. 5 quarter hours

HY 441, 442, 443, 444 Special Topics in History. To be offered on occasion of student demand or need. 1-5 quarter hours

HY 456 America and the World. Examines America's foreign relations with the main geographical regions of the world, including issues

that affect human survival, such as energy crisis, disarmament, foreign aid, and economic cooperation. Also listed as PO 456. 5 quarter hours

HY 460 Seminar in History. A special research course to meet the specific needs and interests of students. 5 quarter hours

POLITICAL SCIENCE (PO)

Political Science seeks to prepare students for careers in law, teaching, political journalism, public administration, and the foreign service.

The student preparing to attend graduate school or enter government service should complete the Bachelor of Arts degree with a major in Political Science and an approved minor. However, he or she may select the Bachelor of Science degree which does not require a minor.

Bachelor of Arts - Political Science Major

Program components for the Bachelor of Arts degree with a major in Political Science include:

1. General education requirements for the degrees and applicable general college requirements and conditions for graduation.
2. The major must include the following courses:
   - Western Civilization **or** Survey of American History — 10 quarter hours
   - American Government **or** PO 302 Problems of American Government — 5 quarter hours
   - PO 300 Great American Issues **or** PO 351 Political Sociology — 5 quarter hours
   - PO 303 Comparative State and Urban Government **or** PO 305 Alabama Government — 5 quarter hours
   - EC/PO 319 Introduction to International Commerce **or** PO 453 International Politics — 5 quarter hours
   - HY/PO 354 Communist Area Studies **or** PO 452 Comparative Political Systems — 5 quarter hours
   - BU/PO 358 Public Administration — 5 quarter hours
   - Twenty quarter hours of Political Science electives — 20 quarter hours
3. An approved minor is required.

Bachelor of Science - Political Science Major

Program components for the Bachelor of Science degree with a major in Political Science include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. The major must include the following courses:

Western Civilization **or** Survey of American History — 10 quarter hours
American Government **or**
PO 302 Problems of American Government — 5 quarter hours
PO 300 Great American Issues **or**
PO 351 Political Sociology — 5 quarter hours
PO 303 Comparative State and Urban Government **or**
PO 305 Alabama Government — 5 quarter hours
EC/PO 319 Introduction to International Commerce **or**
PO 453 International Politics — 5 quarter hours
HY/PO 354 Communist Area Studies **or**
PO 452 Comparative Political Systems — 5 quarter hours
BU/PO 358 Public Administration — 5 quarter hours
HY/PO 456 America and the World — 5 quarter hours
Fifteen quarter hours of Political Science electives — 15 quarter hours

3. An approved minor is required.

Bachelor of Science in Education - Political Science Major

Program components for the Bachelor of Science in Education degree with a major in Political Science include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. The major must include the following courses:
   PO 302 Problems of American Government — 5 quarter hours
   PO 303 Comparative State and Urban Government **or**
   PO 305 Alabama Government — 5 quarter hours
   EC/PO 319 Introduction to International Commerce **or**
   PO 453 International Politics — 5 quarter hours
   HY/PO 354 Communist Area Studies — 5 quarter hours
   BU/PO 358 Public Administration — 5 quarter hours
   PO 360 Constitutional Law — 5 quarter hours
   PO 452 Comparative Political Systems — 5 quarter hours
   HY/PO 456 America and the World — 5 quarter hours
   SS 300 Principles of Social Science — 5 quarter hours
4. A second approved teaching major is required.
5. A minor is **not** required.

POLITICAL SCIENCE MINOR

The student seeking a minor in Political Science should complete thirty (30) quarter hours in political science courses. American Government, Comparative Government, and International Relations must be represented by at least one course in each area.

POLITICAL SCIENCE (PO) COURSES

PO 300 Great American Issues. Examines the development of the main social, economic, and political issues that have faced the United States in this century. Emphasis is on contemporary issues, such as the economy, environment, crime, minority groups, public welfare, education, war and energy. Also listed as HY 300. 5 quarter hours

PO 302 Problems of American Government. A study of the structure and institutional problems of American government in contemporary perspective. Also listed as SO 302. 5 quarter hours

PO 303 Comparative State and Urban Government. A comparative examination of the operation, issues, and theories of state and urban government throughout the United States. 5 quarter hours

PO 305 Alabama Government. Examines the structure and operation of state and local government in Alabama. At the state level, particular emphasis is placed on the work of the legislature and state agencies. At the local level, problems faced by governments in Huntsville, Decatur, Athens, and Birmingham are given special attention. 5 quarter hours

PO 319 Introduction to International Commerce. Examines the international economic system and the challenges faced by multinational corporations in the conduct of international business. Special attention is given to the mechanics of importing and exporting, international finance, and private international law. Also listed as EC 319. 5 quarter hours

PO 350 Concepts of Justice. Designed to acquaint the student with historical and ethical background of the law and familiarize the student with present day principles of law applicable to everyday life. (Not a substitute for BU 311 or BU 312.) Also listed as SO 350 and CJ 350. 5 quarter hours

PO 351 Political Sociology. Explores what federal, state, and local governments are doing to solve major social problems, such as poverty, crime, and those arising from minority group relations. Also listed as SO 351. 5 quarter hours

PO 354 Communist Area Studies. Examines the history, geography, and current political systems in the Soviet Union, Eastern Europe, and Communist China. Some attention is given to Cuba and other small communist states. Also listed as HY 354. 5 quarter hours

PO 358 Public Administration. Acquaints the students with the basic principles of public administration and the structure and programs of the federal bureaucracy. Public administrators are invited to relate their experiences and problems at a few sessions. Prerequisite: American Government. Also listed as BU 358. 5 quarter hours

PO 360 Constitutional Law. Concerned principally with the unique rule of the United States Supreme Court as a policy-making body in the American governmental system and with the Constitution as a major source of law. 5 quarter hours

PO 441, 442, 443, 444 Special Topics in Political Science. To be offered on occasion of student demand or need.

1-5 quarter hours

PO 452 Comparative Political Systems. Examines the theory of comparative government as well as government and politics in Western Europe, Asia, Africa, and Latin America.

5 quarter hours

PO 453 International Politics. A survey of the basic characteristics and theories of the international system. Special emphasis is placed on regional and international organization, international law, international economics, and international cooperation.

5 quarter hours

PO 456 America and the World. Examines America's foreign relations with the main geographical regions of the world, including issues that affect human survival, such as energy crisis, disarmament, foreign aid, and economic cooperation. Also listed as HY 456.

5 quarter hours

PO 460 Directed Study/Research in Political Science. Designed to meet the specific needs of students.

1-5 quarter hours

ANTHROPOLOGY (AN)

A degree in Anthropology is not offered at Athens State College. Any anthropology course may be taken as a social Science elective.

ANTHROPOLOGY (AN) COURSES

AN 301 Principles of Cultural Anthropology. Presents the cultures of isolated societies studied by early 20th century anthropologists and the current effects of contacts and diffusions of the industrial and post-industrial societies on the formerly isolated cultures.

5 quarter hours

GEOGRAPHY

A degree in geography is not offered at Athens State College. Any geography course may be taken as a Social Science elective.

GEOGRAPHY (GO) COURSES

GO 309 World Regional Geography. A comprehensive treatment of both the physical and cultural elements of the Eastern Hemisphere. A treatment that will impart an understanding to the student as to why some groups prosper and others do not. 5 quarter hours

GO 311 Economic Geography. Analysis of the origins, nature and distributions of man's economic activities over the world. Elementary models of economic patterns, processes, and relationships in geographic space are stressed and the relation of these factors to the present position on the nations of the world is emphasized. Also listed as EC 311. 5 quarter hours

GO 320 Anglo-American Geography. A systematic approach to the examination of the modern geography of the United States and Canada. Regional patterns and variations are probed for an overall view of Anglo-America. 5 quarter hours

DIVISION	ACADEMIC AREA	DEPARTMENTAL MAJOR OR MINOR	Degree Option			
			B.A.	B.S.	B.S. Ed.	Minor
BEHAVIORAL SCIENCE	PSYCHOLOGY	Psychology	•	•	•	•
		Behavioral Science		•		
		Personnel Psychology		•		
	SOCIOLOGY	Sociology	•	•		•
	CRIMINAL JUSTICE	Crimal Justice - Administration of Justice		•		
		Crimal Justice - Corrections & Behavioral Science				

DIVISION OF BEHAVIORAL SCIENCES

Joe H. Slate, Ph.D., Division Head

The Division of Behavioral Sciences offers majors in Psychology, Sociology, Criminal Justice, Behavioral Science and Personnel Psychology. Minors are offered in Psychology and Sociology.

Degree options include the Bachelor of Arts, Bachelor of Science and Bachelor of Science in Education. Psychology majors may complete either of the degree options. Majors in Sociology may complete either the Bachelor of Arts or the Bachelor of Science degree. Criminal Justice majors must complete a concentration in either Administration of Justice or Corrections and Behavioral Science to earn the Bachelor of Science Degree. Behavioral Science and Personnel Psychology majors earn the Bachelor of Science degree.

PSYCHOLOGY (PS)

The program in psychology at Athens State College serves three related purposes. For students preparing for graduate study in psychology, the program seeks to provide a comprehensive background for a career in psychology. For students preparing for careers in education, business, law, medicine and other professions, psychology provides important basic knowledge relevant to these fields. Finally, the study of psychology offers the student an opportunity for increases in self-understanding and insight into the behavior of others.

The program in psychology is general in some respects and specialized in others. In its comprehensive survey of the major areas of psychology and its emphasis on acquisition of basic concepts, the program is general. It is specialized and unique in its in-depth treatment of specific areas of study not typically included in undergraduate psychology programs and in its interdisciplinary approach. The interdisciplinary programs in Behavioral Science and Personnel Psychology utilize the faculty resources of Business, Sociology and Psychology in an effort to combine those academic areas related careers in social service, business, and government.

Bachelor of Arts - Psychology Major

Program components for the Bachelor of Arts degree with a major in Psychology include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Major in psychology to consist of fifty quarter hours including the following courses:

General Psychology **or**	
PS 300 Contemporary Psychology	5 quarter hours
PS 331 Social Psychology	5 quarter hours
PS 332 Child Psychology **or**	
PS 334 Adolescent Psychology	5 quarter hours
PS 341 Statistics in Behavioral Science	5 quarter hours
PS 352 Abnormal Psychology	5 quarter hours
PS 400 Experimental Psychology and Methodology for Behavioral Science	5 quarter hours
PS 402 Seminar in Psychotherapy	5 quarter hours
PS 406 Physiological Psychology	5 quarter hours
Ten quarter hours electives in Psychology	

3. A minor is required.

Bachelor of Science - Psychology Major

Program components for the Bachelor of Science degree with a major in Psychology include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Major in psychology to consist of fifty quarter hours including the following courses:

General Psychology **or**	
PS 300 Contemporary Psychology	5 quarter hours
PS 331 Social Psychology	5 quarter hours
PS 332 Child Psychology **or**	
PS 334 Adolescent Psychology	5 quarter hours
PS/SO 341 Statistics in Behavioral Science	5 quarter hours
PS 352 Abnormal Psychology	5 quarter hours
PS/SO 400 Experimental Psychology and Methodology for Behavioral Science	5 quarter hours
PS 402 Seminar in Psychotherapy	5 quarter hours
PS 406 Physiological Psychology	5 quarter hours
Ten quarter hours electives in Psychology.	

3. A minor is **not** required.

Bachelor of Science in Education - Psychology Major High School

Program components for the Bachelor of Science in Education degree (High School) with a major in Psychology include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Professional education requirements for high school certification as listed in the Division of Education section of this catalog.
3. Major in Psychology to consist of fifty quarter hours including the following courses:

General Psychology **or**	
PS 300 Contemporary Psychology	5 quarter hours
PS 330 Educational Psychology **or**	
PS 332 Child Psychology	5 quarter hours
(Student must complete the course not selected as a Professional Education requirement for certification.)	
PS 331 Social Psychology	5 quarter hours
PS/SO 341 Statistics in Behavioral Science	5 quarter hours
PS 352 Abnormal Psychology	5 quarter hours
PS/SO 400 Experimental Psychology and Methodology for Behavioral Science	5 quarter hours
PS 402 Seminar in Psychotherapy	5 quarter hours
PS 406 Physiological Psychology	5 quarter hours
SS 300 Principles of Social Science	5 quarter hours
One of the following:	
PS 370 Behavior Modification **or**	
PS 404 Drug Dependence	5 quarter hours

Bachelor of Science - Behavioral Science Major

The Behavioral Science major is interdisciplinary, emphasizing both sociological and psychological concepts relative to the development and functioning of the individual in contemporary society. The purpose of this degree is to prepare students for work in the human resource field or for graduate study in Sociology, Psychology or Social Work.

Program components for the Bachelor of Science degree with a major in Behavioral Science include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Interdisciplinary major: forty-five quarter hours in Psychology and forty-five quarter hours in Sociology plus PS/SO 341 Statistics in Behavioral Science.
3. Psychology courses required include:

General Psychology **or**	
PS 300 Contemporary Psychology	5 quarter hours
PS 331 Social Psychology	5 quarter hours
PS 332 Child Psychology **or**	
PS 334 Adolescent Psychology	5 quarter hours
PS 352 Abnormal Psychology	5 quarter hours

PS/SO 400 Experimental Psychology and Methodology for Behavioral Science 5 quarter hours
Twenty quarter hours electives in Psychology

4. Sociology courses required include:
   Introduction to Sociology 5 quarter hours
   SO 312 Majority/Minority Group Relations **or** SO 314 Population Study 5 quarter hours
   SO 360 The Contemporary American Family **or** SO 350 Concepts of Justice 5 quarter hours
   SO 361 Social Analysis **or** SO 452 Advanced Criminology 5 quarter hours
   SO 362 Deviant Social Behavior 5 quarter hours
   Twenty quarter hours electives in Sociology
   PS/SO 341 Statistics in Behavioral Science 5 quarter hours

Bachelor of Science - Personnel Psychology

The department of Psychology in cooperation with the Division of Business Administration offers an interdisciplinary major in Personnel Psychology leading to the Bachelor of Science degree. Each of the participating academic divisions contributes faculty resources. The objective of this program is to provide broad professional competence for positions in business, industry, government and human resource fields as well as preparation for graduate study in psychology, business and related areas. A student planning to pursue graduate study is advised to supplement the interdisciplinary major with elective courses in the anticipated area of graduate study.

Program components for the Bachelor of Science degree with a major in Personnel Psychology include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Interdisciplinary major: thirty quarter hours in psychology and thirty quarter hours in business administration plus either BU 305 Statistical Methods of Business or PS 341 Statistics in Behavioral Science.
3. Psychology courses required include:
   General Psychology **or** PS 300 Contemporary Psychology 5 quarter hours
   PS 331 Social Psychology 5 quarter hours
   PS 335 Adult Psychology 5 quarter hours
   PS 352 Abnormal Psychology 5 quarter hours
   PS 368 Industrial and Personnel Psychology 5 quarter hours
   PS 461 Tests and Measurements 5 quarter hours
4. Business Administration courses required include:
   BU 311 Legal Studies in Business I 5 quarter hours
   EC/SS 310 Basic Economics 5 quarter hours
   MG 346 Management and Organization 5 quarter hours

MG 349 Human Resources Management 5 quarter hours
MG 375 Organizational Behavior 5 quarter hours
MG 410 Labor Law and Legislation 5 quarter hours

5. BU 305 Statistical Methods of Business **or**
   PS/SO 341 Statistics in Behavioral Science 5 quarter hours
6. Practicum Option

With approval of the advisor a student may elect to take PS 470/471 Practicum in Psychology for five to ten quarter hours of credit.

PSYCHOLOGY MINOR

The requirements for a minor in Psychology are as follows: thirty quarter hours including General Psychology or PS 300 Contemporary Psychology, PS 352 Abnormal Psychology and PS 331 Social Psychology.

PSYCHOLOGY (PS) COURSES

PS 300 Contemporary Psychology. A consideration of the major areas of contemporary psychology and an analysis of the representative theories and systems for understanding and interpreting behavior. 5 quarter hours

PS 330 Educational Psychology. Application of psychological concepts and principles to classroom teaching and learning especially in the areas of motivation, individual differences, adjustment, and teacher-student interaction. 5 quarter hours

PS 331 Social Psychology. The relationship of the individual to social systems with special reference to the socialization process, group dynamics, social conflict, and person preception. The course includes a brief introduction to methods of research. 5 quarter hours

PS 332 Child Psychology. A study of the physical, mental, social and emotional development of the child. 5 quarter hours

PS 334 Adolescent Psychology. Biological, psychological and sociological perspectives with consideration of major theoretical approaches to adolescent development, development of cognitive processes, social attachment, sexual differences, emotional development, values and moral attitudes. 5 quarter hours

PS 335 Adult Psychology. Examines the scope of adult psychology to include physical and intellectual development, personality and social development, the family and vocational development during young adulthood, the middle years and retirement. 5 quarter hours

PS 336 Learning Theories. A survey of research and experiments in learning and related growth of the major theories of learning. 5 quarter hours

PS 341 Statistics in Behavioral Science. Planning and conduct of behavioral science research with emphasis upon elementary statistical analysis of behavioral science data. Prerequisite: PS or SO major or minor or permission. One college math course; also listed as SO 341.

5 quarter hours

PS 352 Abnormal Psychology. A close consideration of the biological, biochemical, genetic, psychological, and psychosocial factors in behavior pathology. Issues of diagnosis, prognosis, and treatment will be studied. 5 quarter hours

PS 368 Industrial and Personnel Psychology. The application of psychology to industrial organization. Areas of consideration include morale and group processes, supervisory leadership, selection and placement, training, motivation, fatigue, accidents, interviewing, and industrial counseling. Also listed as BU 368.

5 quarter hours

PS 370 Behavior Modification. A study of the application of learning theory in changing human behavior. The course explores principles of learning and application of techniques designed to modify human behavior in a variety of settings. 5 quarter hours

PS 375 Organizational Behavior. A consideration of human behavior in organizational settings with emphasis on individual processes, group processes and organizational structure and functions. Also listed as MG 375.

5 quarter hours

PS 400 Experimental Psychology and Methodology for Behavioral Science. An introductory course in experimental methods and procedures in psychology and sociology. Topics of discussion will include: hypothesis formation, internal and external validity, true experimental designs, quasi-experimental designs, single-subject designs, evaluation research, data collection, ethics, and formal reporting. Laboratory included. Prerequisite: Psychology or Sociology major or minor and PS/SO 341 Statistics in Behavioral Science. Also listed as SO 400. 5 quarter hours

PS 401 Experimental Parapsychology. A study of the experimental methods and procedures applicable to parapsychology. Explores the sources of parapsychological data, evaluates the problems and limitations of parapsychological research, and examines the applications of parapsychological research to medicine, psychodiagnosis, psychotherapy, forensics, education and personal development. Laboratory included.

5 quarter hours

PS 402 Seminar in Psychotherapy. An introduction to personality theory and the techniques of counseling and psychotherapy. An

approach to psychotherapy and psychotherapeutic techniques will be emphasized within which various schools of thought can be considered in terms of a common framework. Prerequisite: PS 352 Abnormal Psychology. 5 quarter hours

PS 403 Seminar in Parapsychology. A study of the phenomena associated with extra-sensory perception, psychokinesis, unexplained events and related topics. 5 quarter hours

PS 404 Drug Dependence. The basic pharmacological and psychological variables in the problem and treatment of drug dependence. 5 quarter hours

PS 405 Biofeedback. Basic principles of biofeedback with emphasis on clinical and research applications. Laboratory included. 5 quarter hours

PS 406 Physiological Psychology. A study of the relationships between physiological and psychological functions with special emphasis on mind-body interaction and the physiological explanations for human behavior. Topics of study include: nervous and endocrine systems, sleeping and waking; ingestive behavior; sexual behavior; reinforcement, punishment, motivation; emotions; learning (disabilities, dysfunctions, etc.) and memory laboratory included. Lecture, discussion, and laboratory research. 5 quarter hours

PS 408 Psychology of Criminal Behavior. Personality and psychological factors in criminal behavior with special reference to behavior systems and types of criminal behavior, the psychology of treatment and control; societal values and community factors. Prerequisite: PS 352 Abnormal Psychology. Also listed as CJ 408. 5 quarter hours

PS 441, 442, 443, 444 Special Topics in Psychology. To be offered on occasion of student demand or need. 1-5 quarter hours

PS 460 Directed Studies in Psychology. 1-5 quarter hours

PS 461 Tests and Measurements. Principles and procedures of measurement and evaluation to include consideration of effective evaluative methods, construction of classroom tests and use of standarized tests. 5 quarter hours

PS 470, 471 Practicum in Psychology. Provides supervised experiences in appropriate community agencies, institutions, industrial or research settings. The course includes a weekly seminar with discussion and evaluation of experiences in the field. 5 quarter hours

SOCIOLOGY (SO)

The purpose of the Sociology program is to develop in the student an awareness of the social influences upon human behavior and of the

influence that individuals have upon the groups with which they interact. Study in this discipline should prepare the individual to perform social service functions in the community. Careers related to this function include social welfare work, counseling in mental health centers, hospitals or other service agencies, teaching, probation/parole, and similar roles.

Bachelor of Arts - Sociology Major

Program components for the Bachelor of Arts degree with a major in Sociology include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Human Anatomy and Physiology **or**
   Human Genetics **or**
   Human Sexuality — 5 quarter hours
3. Forty-five quarter hours of Sociology coursework to include:
   - SO 312 Majority/Minority Group Relations **or**
     SO 314 Population Study — 5 quarter hours
   - SO 341 Statistics in Behavioral Science — 5 quarter hours
   - CJ/PO/SO 350 Concepts of Justice **or**
     SO 360 The Contemporary American Family — 5 quarter hours
   - SO 361 Social Analysis **or**
     SO 452 Advanced Criminology — 5 quarter hours
   - SO 362 Deviant Social Behavior — 5 quarter hours
   - SO 400 Experimental Psychology and Methodology for Behavioral Science — 5 quarter hours
   - SO 461 Sociological Theories — 5 quarter hours

   Ten quarter hours of Sociology electives
4. A minor is required.

Bachelor of Science - Sociology Major

Program components for the Bachelor of Science degree with a major in Sociology include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Human Anatomy and Physiology **or**
   Human Genetics **or**
   Human Sexuality — 5 quarter hours
3. Forty-five quarter hours of Sociology coursework to include:
   - SO 312 Majority/Minority Group Relations — 5 quarter hours
   - PS/SO 341 Statistics in Behavioral Science — 5 quarter hours
   - CJ/PO/SO 350 Concepts of Justice **or**
     SO 360 The Contemporary American Family — 5 quarter hours
   - SO 361 Social Analysis **or**
     SO 452 Advanced Criminology — 5 quarter hours

SO 362 Deviant Social Behavior 5 quarter hours
SO 400 Experimental Psychology and Methodology for Behavioral Science 5 quarter hours
SO 461 Sociological Theories 5 quarter hours
Ten quarter hours of Sociology electives

4. A minor is **not** required.

SOCIOLOGY MINOR

The student selecting a minor in Sociology must complete thirty quarter hours including the following:

SO 312 Majority/Minority Group Relations
PS/SO 341 Statistics in Behavioral Science
SO 362 Deviant Social Behavior
SO 461 Sociological Theories
Ten quarter hours of Sociology electives

SOCIOLOGY (SO) COURSES

SO 300 Moral Values in Today's Society. A sociological approach to the study of morality combined with a philosophical examination of what moral value is and how moral values may be realized in today's society. Emphasis will be given to specific current moral issues. Also listed as PH 300. 5 quarter hours

SO 302 Problems of American Government. A study of the structure and institutional problems of American government in contemporary perspective. Also listed as PO 302. 5 quarter hours

SO 304 Sociology of Work. Consists of sociological analysis of work in pre-industrial and industrial societies; a consideration of problems involved in the conceptual and empirical study of occupations and professions; an examination of the process of professionalization, and the study of leisure and the social consequences of changes in occupations and professions. 5 quarter hours

SO 312 Majority/Minority Group Relations. Minority group contacts and conflicts with an emphasis upon negative prejudice and its effects upon minority group status in the United States. 5 quarter hours

SO 314 Population Study. The relationship of demographic factors to the social structure. Trends in fertility, mortality, population growth, distribution, migration, and composition. 5 quarter hours

SO 327 Sociology of Religion. The interaction, interpretation, and interrelationships of religion, society, and individual morality in American religious behavior and institutions. Also listed as RE 327. 5 quarter hours

SO 341 Statistics in Behavioral Science. Planning and conduct of behavioral science research with emphasis upon elementary

statistical analysis of behavioral science data. Laboratory included. Prerequisite: PS or SO major or minor or permission. One college math course. Also listed as PS 341.

5 quarter hours

SO 350 Concepts of Justice. Designed to acquaint the student with historical and ethical background of the law and familiarize the student with present day principles of law applicable to everyday life. (Not a substitute for BU 311 or BU 312.) Also listed as PO 350 and CJ 350. 5 quarter hours

SO 351 Political Sociology. Explores what federal, state, and local governments are doing to solve major social problems, such as poverty, crime, and minority group relations. Also listed as PO 351.

5 quarter hours

SO 360 The Contemporary American Family. Study of the relationships of family structure to social organization. To understand the influence of change on family life styles in transition from patriarchal to equalitarian and the legal ramification of divorce, estates and wills. 5 quarter hours

SO 361 Social Analysis. Varieties of deviant behavior and social disorganization, facts and theories concerning their causes, nature, and control to develop a biological, psychological, religious and sociological base from which to investigate group behavior.

5 quarter hours

SO 362 Deviant Social Behavior. An in-depth examination of the social implication of labeling deviant behavior, its effects upon both the individual and society. 5 quarter hours

SO 363 Social Structure and Personality. An analysis of the relationship of the culture and individual behavior through social influences.

5 quarter hours

SO 364 Civil Liberties. Designed for the non-lawyer, general social science student interested in balancing government interest (group rights) with individual rights across the broad American spectrum of social interrelations. 5 quarter hours

SO 400 Experimental Psychology and Methodology for Behavioral Science. An introductory course in experimental methods and procedures in psychology and sociology. Topics of discussion will include: hypothesis formation, internal and extenal validity, true experimental designs, quasi-experimental designs, single-subject designs, evaluation research, data collection, ethics, and formal reporting. Laboratory included. Prerequisites: Psychology or Sociology major or minor and PS/SO 341 Statistics in Behavioral Science. Also listed as PS 400. 5 quarter hours

SO 401 Adult Correction. Socioeconomic facets of crime and principles and practices of delinquency, probation and parole, interaction (environmental and attitudinal) of persons from sentencing to return to society will be stressed. Also listed as CJ 401.
5 quarter hours

SO 441, 442, 443, 444 Special Topics In Sociology. To be offered on occasion of student demand or need.
1-5 quarter hours

SO 452 Advanced Criminology. Analysis of social causal process and theories by which individuals become criminals and evaluation of the effectiveness of the criminal justice system in returning helpful, contributing citizens back to society. Historical and contemporary orientation.Also listed as CJ 452.
5 quarter hours

SO 453 Juvenile Delinquency. An in-depth examination of juvenile delinquency within a sociological framework. Includes both a theorethical and practical emphasis. 5 quarter hours

SO 460 Directed Research Studies in Sociology. Designed to examine selected topics from a sociological perspective.
1-5 quarter hours

SO 461 Sociological Theories. An historical examination of the theories and principles of social science. 5 quarter hours

SO 464, 465 Seminar and Field Observation in Social Work. This course will entail approximately six to eight hours of active field observation per week in cooperation with specific social work agencies in this area. A term paper will be required. Prerequisite: Permission of Instructor. 5 quarter hours each

SO 471 Aging in A Mass Society. A study of the aging process, the special problems encountered by the aging and by the institutions of society involved in the care of the aging. 5 quarter hours

CRIMINAL JUSTICE (CJ)

The Criminal Justice program is planned to present and enhance student opportunities in the criminal justice field relating to a wide range of professions involved with criminal law-related institutions. These opportunities include professional roles in law enforcement and correctional administration, security positions in private industry, judicial administration, and probation and parole. Criminal justice is also an acceptable pre-law curriculum for most law schools.

Bachelor of Science - Criminal Justice Major

Program components for the Bachelor of Science degree with a major in Criminal Justice include:

1. General education requirements for the Bachelor of Science degree, and all applicable general college requirements and conditions for graduation. General education requirements include one computer science course.
2. Coursework to include the following:

CJ 300 Survey of Criminal Justice	5 quarter hours
CJ 301 The Criminal Justice Process	5 quarter hours
CJ 302 Criminal Law	5 quarter hours
MG 346 Management and Organization	5 quarter hours
CJ/SO 401 Adult Corrections	5 quarter hours
CJ/PS 408 Psychology of Criminal Behavior	5 quarter hours
CJ/PO 450 Criminal Justice Courts	5 quarter hours
CJ/SO 452 Advanced Criminology	5 quarter hours

3. One of the following concentrations of coursework:

I. Administration of Justice

AC 300 Basic Accounting **or** one additional computer science course	5 quarter hours
CJ/PO/SO 350 Concepts of Justice	5 quarter hours
EC/SS 310 Basic Economics	5 quarter hours
MG 349 Human Resources Management **or** BU/PO 358 Public Administration	5 quarter hours
MG 377 Managing a Public Enterprise	5 quarter hours
PO 360 Constitutional Law **or** CJ/PO/SO Civil Liberties	5 quarter hours
CJ 410 Advanced Criminal Investigations **or** CJ 441 Special Topics	5 quarter hours
CJ 460 Directed Studies **or** CJ 465 Criminal Justice Practicum	5 quarter hours

II. Corrections and Behavioral Science

PS 334 Adolescent Psychology **or** PS 335 Adult Psychology	5 quarter hours
PS/SO 341 Statistics in Behavioral Science	5 quarter hours
PS 370 Behavior Modification	5 quarter hours
SO 302 Deviant Social Behavior **or** PS 352 Abnormal Psychology	5 quarter hours
SO 312 Majority/Minority Group Relations **or** SO 453 Juvenile Delinquency	5 quarter hours
PO/CJ/SO 364 Civil Liberties **or** PO/CJ/SO 350 Concepts of Justice	5 quarter hours
MG 349 Human Resources Management **or** CJ 441 Special Topics	5 quarter hours
CJ 460 Directed Studies **or** CJ 465 Criminal Justice Practicum	5 quarter hours

4. A minor is **not** required.

CRIMINAL JUSTICE (CJ) COURSES

CJ 300 Survey of Criminal Justice. Designed to acquaint the student with basic law enforcement, court, and correctional agencies and processes involved in the criminal justice system. Emphasis will be placed on the inter-relationship among the components. Some material will be devoted to career opportunities. 5 quarter hours

CJ 301 The Criminal Justice Process. Emphasis is placed upon the professional development of students who plan careers in Criminal Justice or related fields by making an in-depth examination of the actual workings of the legal system's institutions. 5 quarter hours

CJ 302 Criminal Law. Introduction to development of criminal law, elements of criminal offense and types of offenses and defenses. Considers the impact of statutory law and common law on police procedures and policies.

5 quarter hours

CJ 350 Concepts of Justice. Designed to acquiant the student with historical and ethical background of the law and familiarize the student with present day principles of law applicable to everyday life. Also listed as PO 350 and SO 350.

5 quarter hours

CJ 364 Civil Liberties. Analysis of constitutional cases balancing government interest (group rights) with individual rights across the broad spectrum of social interrelations. Specifically explores First, Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendment cases. Also listed as SO 364 and PO 364.

5 quarter hours

CJ 401 Adult Corrections. Socioeconomic facets of crime and principles and practices of delinquency, probation and parole, interaction (environmental and attitudinal) of persons from sentencing to return to society will be stressed. Also listed as SO 401.

5 quarter hours

CJ 408 Psychology of Criminal Behavior. Personality and psychological factors in criminal behavior with special reference to behavior systems and types of criminal behavior, the psychology of treatment and control, societal values and community factors. Also listed as PS 408. 5 quarter hours

CJ 410 Advanced Criminal Investigation. Advanced study of new developments in the field of criminal identification systems and detection methods. Local action projects will be encouraged to implement improved policies, procedures, and practices in law enforcement agencies. 5 quarter hours

CJ 441, 442, 443, 444 Special Topics in Criminal Justice. To be offered on occasion of student demand or need.

5 quarter hours

CJ 450 Criminal Justice Courts. Examines the opinions of selected cases of the United States Supreme Court as principles that govern police, attorney, judicial, and correctional actions. Emphasis is placed on due process cases of the Fourth, Fifth, and Sixth Amendments of the Constitution. Also listed as PO 450.

5 quarter hours

CJ 452 Advanced Criminology. Analysis of social causal process and theories by which individuals become criminals and evaluation of the effectiveness of the criminal justice system in returning helpful, contributing citizens back to society. Historical and contemporary orientation. Also listed as SO 452. 5 quarter hours

CJ 460 Directed Studies/Research in Criminal Justice. Research and analysis of specific problems encountered in the criminal justice process. 5 quarter hours

CJ 465 Criminal Justice Practicum. Provides supervised experiences in appropriate criminal justice agencies. This course includes routine seminars with discussion and evaluation of experiences in the field. 5 quarter hours

GENERAL STUDIES PROGRAM

The General Studies program is designed to provide maximum flexibility in course selection for students with specific objectives in mind and for students who seek personal enrichment and fulfillment through collegiate study. While no specified major courses are required, the student must comply with all degree requirements for the Bachelor of Science Degree and satisfy all applicable general college requirements and conditions for graduation (page 26).

ACADEMIC UNIT	DEPARTMENT	DEPARTMENTAL MAJOR OR MINOR	Degree Option			
			B.A.	B.S.	B.S. Ed.	Minor
NATURAL SCIENCE AND MATHEMATICS	BIOLOGY	Biology		•	•	•
	CHEMISTRY	Chemistry		•	•	•
	COMPUTER SCIENCE	Computer Science		•		•
	MATHEMATICS	Mathematics		•	•	•
	PHYSICS	Physics		•		•
		Health Science		•		
		Comprehensive Science			•	
		Technical Management		•		
SCIENTIFIC TECHNOLOGIES	INSTRUMENTATION SCIENCE	Instrumentation Science		•		
		Instrumentation Technology		•		•
	NONDESTRUCTIVE TESTING SCIENCE	Nondestructive Testing Sci.		•		
		Nondestructive Testing Tech		•		•
		Technical Management		•		

DIVISION OF SCIENCE AND TECHNOLOGY

William A. Short, Ph.D., Division Head

The following academic units and their respective departments are included within the Division of Science and Technology: Natural Science and Mathematics (Biology, Chemistry, Computer Science, Mathematics and Physics); and Scientific Technology (Instrumentation Science and Nondestructive Testing Science).

Both the organization of the Division of Science and Technology by academic unit and department, and information relative to degree options, majors, and minors, are summarized in the preceding chart. An asterisk (*) is used to designate the degree option(s) for a particular major and to indicate that a department offers a minor. The summary reflects the same order used to arrange this section of the catalog. For information regarding a particular departmental major or minor, the student is referred to that department's catalog description.

It is the student's responsibility to comply with the requirements for a particular major sponsored by the Division of Science and Technology. Under no circumstances are alterations of a particular curriculum permitted without prior approval of the student's faculty advisor, the Division Head, and the Academic Dean (see Adjustment of Curriculum page 27 of this catalog.)

A grade point average of 2.5 in the major field must be achieved by a student majoring in any field sponsored by the Division of Science and Technology.

NATURAL SCIENCE AND MATHEMATICS

Natural Science and Mathematics programs are designed to prepare the student for entrance into the job market or for continuing education in professional or graduate school.

Departmental majors leading to the Bachelor of Science degree are offered in Biology, Chemistry, Computer Science, Mathematics, and Physics. The academic unit also sponsors a major in Health Science, and in cooperation with the Division of Business offers a Technical Management major and a major in Computer Information Systems. The Health Science and Technical Management majors both lead to the Bachelor of Science degree. The Bachelor of Science in Education degree may be earned with majors in Biology, Chemistry, Mathematics, and Comprehensive Science.

Science curricula require extended course sequences. Therefore, it is imperative that Natural Science and Mathematics majors meet with an advisor, to be assigned by the Division Head, as soon as possible. It must be noted, however, that the student bears final individual responsibility for scheduling and completing all requirements for his or her degree.

To fit specific student needs, special programs may be devised which vary slightly from published requirements. Under no circumstances, however, are alterations of degree programs permitted without prior consultation with the student's academic advisor and Academic Dean.

Natural Science and Mathematics faculty are frequently involved in various research activities. Majors are strongly encouraged to participate with their professors in such research.

Pre-medical, Pre-dental, and Para-medical students: There are no nationally approved lists of required courses for pre-medical, pre-dental, or para-medical programs. Each professional school has its own specific requirements. In general, such schools seek students who have (1) a broad general education, (2) at least three years of college, preferably a baccalaureate degree, (3) a major in any field, according to the student's interest, and (4) basic science requirements, although not science courses that duplicate professional school coursework.

At Athens State College, pre-medical, pre-dental, and para-medical students are advised to major in either Biology or Chemistry. A program of study leading to a Bachelor of Science degree, tailored to meet specific recommendations of a particular professional school, will be worked out for the student in consultation with his or her academic advisor.

BIOLOGY (BI)

The objective of the major in Biology is to provide the graduate with a comprehensive science education, encompassing standard academic

courses in Biology, Chemistry, Mathematics and Physics. Courses and programs are structured to provide basic coursework applicable to (1) fields requiring a general preparation in Biology, (2) graduate and professional programs, (3) medical and related health fields, and (4) secondary school teaching.

Biology offers majors leading to the Bachelor of Science degree and to the Bachelor of Science in Education degree. A minor is also offered.

Bachelor of Science - Biology Major

Structured to prepare students for research and technical areas requiring a baccalaureate degree, this program is also designed to satisfy most graduate and/or professional school admission requirements.

Program components for the Bachelor of Science degree with a major in Biology include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. A 61-63 quarter hour major, including thirty-six quarter hours of upper division course work, at least twenty quarter hours of which must be taken at Athens State College.

3. The major must include the following courses or their approved equivalents.

Principles of Biology	5 quarter hours*
General Botany	5 quarter hours*
General Zoology	5 quarter hours*
BI 401 Cell Biology	6 quarter hours
BI 402 Genetics	6 quarter hours
BI 403 General Ecology	6 quarter hours

Three of the following courses:

BI 411 Invertebrate Zoology I	6 quarter hours
BI 412 Invertebrate Zoology II	6 quarter hours
BI 413 Vertebrate Zoology	6 quarter hours
BI 431 Nonvascular Plants	6 quarter hours
BI 432 Vascular Plants	6 quarter hours

Two additional approved electives (10-12 quarter hours) in Biology.

4. A full year of General Chemistry (CH 303, 304, and 305), or approved equivalent, are required of all majors. CH 305 is a prerequisite for Cell Biology. In addition, a full year of Organic Chemistry and a course in Biochemistry are strongly encouraged.
5. A two-quarter sequence in Calculus and a full year of General Physics is also strongly recommended.
6. A minor is not required.

(*These courses must be completed first)

Bachelor of Science in Education - Biology Major

Program components for the Bachelor of Science in Education degree with a major in Biology include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. Completion of a fifty-four hour major, twenty-eight hours of which must be taken at Athens State College. Including the following courses or their approved equivalent:

Principles of Biology	5 quarter hours*
General Botany	5 quarter hours*
General Zoology	5 quarter hours*
BI 321 Environmental Studies	5 quarter hours
BI 322 Evolution, Heredity and Human Affairs	5 quarter hours
BI 341 Biological Materials and Methods	5 quarter hours

Four the the following:

BI 311 Human Anatomy and Physiology	6 quarter hours
General Microbiology	6 quarter hours
BI 401 Cell Biology	6 quarter hours
BI 411 Invertebrate Zoology I	6 quarter hours
BI 412 Invertebrate Zoology II	6 quarter hours
BI 413 Vertebrate Zoology	6 quarter hours
BI 431 Nonvascular Plants	6 quarter hours
BI 432 Vascular Plants	6 quarter hours

4. An approved second teaching major is required.
5. A minor is **not** required.

(*These courses must be completed first)

BIOLOGY MINOR

A minor requires the completion of thirty quarter hours of Biology coursework, including fifteen quarter hours of upper division coursework of which at least ten quarter hours must be taken at Athens State College.

MARINE ENVIRONMENTAL CONSORTIUM

Athens State College is a member of the Marine Environmental Consortium, based at Dauphin Island Sea Lab. This affiliation offers Athens State College students and faculty an opportunity to take courses and conduct research in estaurine and marine environments. Courses offered during the summer at Dauphin Island may be taken for credit at Athens State College toward a major or minor in biology or a

minor in marine sciences. Some of the course offerings cannot be taken for biology major or minor credits, but may be taken as general elective credit. All programs of study that involve marine science courses must be approved by the MESC-ASC liaison officer. A list of summer course offerings can be obtained during the preceding Spring Quarter from the liaison officer.

TECH AQUA CONSORTIUM - UPPER CUMBERLAND BIOLOGICAL STATION

Athens State College is an Associate Member in the Tech Aqua Consortium based at Tennessee Tech University, Cookeville, Tennessee. This affiliation provides Athens State College students and faculty with the opportunity to take courses and conduct research at the Upper Cumberland Biological Station (Tech Aqua) located on Center Hill Reservoir near Smithville, Tennessee. Courses offered during the summer terms may be taken for credit at Athens State College toward a major or minor in biology. All programs of study that involve courses at Tech Aqua must be approved by the UCBS (TA) liaison officer. A list of summer course offerings can be obtained during the preceding Spring Quarter from the liaison officer.

BIOLOGY (BI) COURSES

BI 311 Human Anatomy and Physiology. A study of the structure and physiology of the human body with emphasis on the skeletal, muscular, circulatory, and respiratory systems, stressing the importance of physical fitness and the capabilities of the human body in the maintenance of health. Human Anatomy and Physiology is a general education requirement for the Bachelor of Science in Education Physical Education major. No prerequisite. Laboratory included. 6 quarter hours

BI 321 Environmental Studies. Presents biological and physical aspects of environmental problems, integrating current legal, economic, social and technical developments. No prerequisite. 5 quarter hours

BI 322 Evolution, Heredity, and Human Affairs. Presents an integrated total picture of humanity through details and examples of evolution, emphasizing the descent of man, reproduction as a mechanism for the transmission of hereditary traits, and basic principles of inheritance. No prerequisite. 5 quarter hours

BI 323 Human Sexuality. A comprehensive and integrated approach to human sexuality emphasizing biological aspects. No prerequisite. 5 quarter hours

BI 341 Biological Materials and Methods. Introduces the student to biological terminology, techniques, procedures, demonstration methods, projects, experiments, media production and material

sources. Prerequisite: Secondary Education Biology major or permission of the instructor. Laboratory included.

5 quarter hours

BI 342 Plants and Civilization. Presents the role plants have played in the development of past, present, and future civilizations, as interpreted by anthropology, archeology, and botany. Traces the connection between plants and man's social and economic development (history of plant uses, origins of agriculture, and future demands). No prerequisite.

5 quarter hours

BI 343 Life Manipulation. Examines the various possibilities at hand for manipulating our biological future - cloning, psychosurgery, delayed aging, test-tube babies, artificial organs, gene splicing, artificial insemination, sex preselection, prenatal diagnosis of birth defects, etc. - and their social, legal and ethical impacts on society. No prerequisite.

5 quarter hours

BI 401 Cell Biology. In-depth study of the structure and functions of living cells, emphasizing ultrastructure and fundamental physiological processes. Prerequisite: Principles of Biology and CH 305 or equivalent. Lab included.

6 quarter hours

BI 402 Genetics. An introduction to the principles of heredity and variation. Laboratory included. Prerequisite: Principles of Biology.

6 quarter hours

BI 403 General Ecology. Study of the interrelationships between living organisms and the relationships between organisms and their environment. Laboratory included. Prerequisite: Principles of Biology.

6 quarter hours

BI 411 Invertebrate Zoology I. Life histories and comparative studies of invertebrate organisms including the Protozoa, Porifera, Cnidaria, Platyhelminthes, and Nematoda, with emphasis on parasites of importance to man. Laboratory included. Prerequisite: Principles of Biology and General Zoology.

6 quarter hours

BI 412 Invertebrate Zoology II. Life histories and comparative studies of invertebrate organisms including the Annelida, Mollusca, Arthropoda, Echinodermata, and Prochordates. Laboratory included. Prerequisite: Principles of Biology and General Zoology.

6 quarter hours

BI 413 Vertebrate Zoology. Vertebrate structure and function with emphasis on collection and identification of local aquatic and

terrestrial vertebrates. Laboratory included. Prerequisite: Principles of Biology and General Zoology.

6 quarter hours

BI 431 Nonvascular Plants. A survey of lower plants (bacteria, fungi, algae, liverworts, hornworts, and mosses) with emphasis on morphology, taxonomy, and phylogeny. Laboratory included. Prerequisite: Principles of Biology and General Botany.

6 quarter hours

BI 432 Vascular Plants. A survey of vascular plants (fern allies, ferns, cycads, conifers, and angiosperms) with emphasis on morphology, taxonomy, and phylogeny. Collection and identification of local flora will be required as part of an included laboratory. Prerequisite: Principles of Biology and General Botany.

6 quarter hours

BI 441, 442, 443, 444 Special Topics in Biology. To be offered on occasion of student demand or need. 1-5 quarter hours

BI 460 Directed Study/Research in Biology. To be offered on occasion of student demand or need. 1-5 quarter hours

CHEMISTRY (CH)

The chemistry major may earn either the Bachelor of Science degree or the Bachelor of Science in Education degree. The Bachelor of Science degree is sufficient preparation for a career in industrial or governmental chemistry laboratories and for graduate study, while the Bachelor of Science in Education degree prepares the student for high school teaching. With proper electives, the chemistry major can also enter postgraduate degree programs in law, medical or dental school, environmental sciences, and related fields.

Bachelor of Science - Chemistry

Program components for the Bachelor of Science degree with a major in Chemistry include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Completion of the following courses:

General Chemistry	15 quarter hours
Organic Chemistry	15 quarter hours
Analytical Chemistry	5 quarter hours
Physical Chemistry	15 quarter hours
Instrumental Analysis	5 quarter hours
Two advanced Chemistry courses	10 quarter hours
PASCAL or FORTRAN Programming	5 quarter hours
General Physics	15 quarter hours
Calculus	10 quarter hours
Intermediate Calculus	10 quarter hours
Differential Equations	5 quarter hours

3. A minor is **not** required.

Bachelor of Science in Education - Chemistry

Program components for the Bachelor of Science in Education degree with a major in Chemistry include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. The major must include the following courses:

General Chemistry	15 quarter hours
Organic Chemistry	15 quarter hours
Analytical Chemistry	5 quarter hours
Physical Chemistry	5 quarter hours
One (1) senior level chemistry elective from CH 402 Inorganic Chemistry **or** CH 413 Biochemistry	5 quarter hours
MA 303/304 Calculus	10 quarter hours
MA 305/306 Intermediate Calculus	10 quarter hours
General Physics	5 quarter hours

4. A second approved teaching major is required.
5. A minor is **not** required.

CHEMISTRY MINOR

A minor in Chemistry requires fifteen quarter hours general chemistry and fifteen quarter hours organic chemistry. At least fifteen quarter hours of the minor coursework must be taken at Athens State College.

CHEMISTRY (CH) COURSES

CH 300 College Science Chemistry. A non-laboratory course presenting basic concepts of chemistry, geology, and meteorology. This course does not serve as a prerequisite for any other course in the sciences. 5 quarter hours

CH 301 Chemistry for Technology. A basic course designed for technology majors, especially as a prerequisite for Materials (NT 302/303). Elementary concepts of atomic theory, thermodynamics, kinetics, acids, bases, and equilibrium will be emphasized. This course will not serve as upper level chemistry for IT and NT science majors nor as a substitute for general chemistry. Prerequisite: College Algebra. 5 quarter hours

CH 303/304 Chemistry for Scientific Technologies. A study of chemical principles important to the student of scientific technologies. The emphasis is on inorganic chemistry to include atomic theory, the periodic table, thermochemistry, kinetics, equilibrium, phase changes, oxidation-reduction, acids and bases plus other principles with an emphasis on problem solving. Laboratory includes inorganic qualitative analysis and classical quantitative analysis.

CH 303/304 and 305 may serve as the first course in chemistry for other science and math majors. 6 quarter hours each

CH 305 Organic Chemistry for Scientific Technologies. An introduction to organic molecules and their functional groups. Some characteristic reactions also included. This course is not a required prerequisite for CH 311 and may be omitted if the CH 311/312/313 sequence is to be taken. Laboratory included

6 quarter hours

CH 311/312/313 Organic Chemistry. A basic study of aliphatic and aromatic compounds, their properties, preparation, and reactions with emphasis on theory and mechanisms of reaction. Laboratory includes organic qualitative analysis. Prerequisite: One year of college chemistry.

6 quarter hours each

CH 314/315 Polymer Science. A study of the synthesis, characterization, testing and reactions of polymers. The study will include step-reaction polymerization, ionic chain reactions, free-radical chain polymerization, copolymerization and inorganic polymers, in addition to the effects of additives and fillers. Prerequisite: CH 305 or CH 313.

5 quarter hours each

CH 316 Composites. A composite is filled or reinforced plastic or fiber with many uses, especially as a structural material. This course is a study of composites as to their manufacture, properties, uses and will include testing procedures of composites and components. Prerequisite: CH 314/315.

5 quarter hours

CH 324 Analytical Chemistry. Classical volumetric techniques in chemical analysis, modern methods of chemical separation and basic instrumentation techniques. Laboratory included. Prerequisite: One year of college chemistry.

6 quarter hours

CH 330 Physical Chemistry. Chemical Thermodynamics. Laboratory included. Prerequisite: Intermediate Calculus.

6 quarter hours

CH 331/332 Physical Chemistry. An application of the laws and principles of physics and mathematics to the study of phenomena and concepts such as equilibria, kinetics, molecular structure and spectroscopy. Laboratory included. Prerequisite: CH 330.

6 quarter hours each

CH 402 Inorganic Chemistry. A course dealing with topics of theoretical chemistry including the periodic table, stereo-chemistry, coordination chemistry and wave mechanics. Prerequisite: CH 330 or permission of the instructor. 5 quarter hours

CH 410 Instrumental Analysis. Theoretical and practical application of modern instrumentation to problems in analytical chemistry. Optical, electrochemical, and other instrumentation techniques are covered. Laboratory included. Prerequisite: CH 305 or CH 311. Also listed as IT 410.

5 quarter hours

CH 412 Intermediate Organic Chemistry. A study of advanced topics and complex substances of organic chemistry. Prerequisite: CH 313.

5 quarter hours

CH 413 Biochemistry. A study of proteins, carbohydrates, lipids and other important biochemical compounds and their metabolic functions. Enzyme reaction mechanisms and biological oxidations are included. Prerequisite: CH 312.

5 quarter hours

CH 441, 442, 443, 444 Special Topics in Chemistry. To be offered on occasion of student demand or need.

1-5 quarter hours

CH 460 Directed Study/Research in Chemistry. To be offered on occasion of student demand or need.

1-5 quarter hours

CH 471/472/473 Chemistry Seminar. Student presentations of written or oral reports of selected advanced topics. Prerequisite: Permission of instructor.

1 quarter hour each

CH 475/476/477 Chemical Research. Selected research projects in the field of chemistry. Prerequisite: Permission of the instructor.

5 quarter hours each

COMPUTER SCIENCE (CS)

The Department of Computer Science offers majors leading to the Bachelor of Science in Computer Science and a Bachelor of Science in Computer Information Systems. The Department of Computer Science (CS) also supports the Technical Management Major by offering a structured concentration in computer science. The Computer Science Department offers a minor in Computer Science for other science majors, for business majors, and majors in other disciplines that approve of Computer Science minors.

The Computer Science curriculum emphasizes structured programming, problem solving, and software engineering. The program includes a significant amount of hands-on use of computers. A maximum effort is made to maintain state-of-the-art software and hardware computer systems. Courses are continually added, updated or revised to ensure current academic excellence. The CS department is

fortunate to have the assistance of the most knowledgeable, up-to-date Computer Science professionals as adjunct professors.

The ASC Computer Science program offers the opportunity for its graduates to be adequately prepared to enter a professional career in an appropriate computer related field.

Bachelor of Science - Computer Science Major (CS)

The degree of Bachelor of Science is awarded to students who satisfactorily complete the following general educational requirements, requirements for the major in their program of study, and applicable general college requirements and conditions for graduation. Upon admission to Athens State College each student is assigned an advisor. Students should confer with their advisors at least once each quarter. Although faculty advisors assist students in planning their academic programs, each student bears final individual responsibility for meeting all degree requirements. Adjustments of a curriculum must be approved by the Academic Dean. Program components for the Bachelor of Science degree with a major in Computer Science include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Completion of the following courses:

MA 303/304/305/306 Calculus	20 quarter hours
PY 301/302/303 Physics (Calculus based)	15 quarter hours
MA 310 Linear Algebra	5 quarter hours
MA 421 Differential Equations	5 quarter hours
MA 423 Numerical Analysis	5 quarter hours
MA 308 Discrete Mathematics	5 quarter hours
CS 315 Pascal Programming	5 quarter hours
CS 330 FORTRAN Programming	5 quarter hours
CS 340 Assembly Language Programming	5 quarter hours
CS 345 Computer Architecture	5 quarter hours
CS 415 Operating Systems	5 quarter hours
CS 430 Scientific Programming Applications	5 quarter hours
CS 435 Data Structures	5 quarter hours
CS 440 Database Systems	5 quarter hours
CS 450 Software Engineering	5 quarter hours
CS 451 Systems Analysis & Design	5 quarter hours
CS 452 Software Implementation and Acceptance Testing Techniques	5 quarter hours
Electives in Computer Science	15 quarter hours

Bachelor of Science
COMPUTER INFORMATIONS SYSTEMS OPTION (CIS)

Program components for the Bachelor of Science degree with a major in Computer Information Systems (CIS Option) include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Completion of the following courses:

Natural Science	10 quarter hours
Mathematics (College Algebra)	5 quarter hours
AC 300 Basic Accounting	5 quarter hours
AC 400 Decision Accounting	5 quarter hours
BU 305 Statistical Methods of Business	5 quarter hours
BU 311 Legal Studies in Business I	5 quarter hours
EC 310 Basic Economics	5 quarter hours
EC 415 Managerial Finance	5 quarter hours
MG 346 Management & Organization	5 quarter hours
MG 375 Organizational Behavior	5 quarter hours
MG 420 Strategic Management	5 quarter hours
MK 331 Marketing Principles	5 quarter hours
MA 308 Discrete Mathematics	5 quarter hours
CS 300 Introduction to Business Computing	5 quarter hours
CS 315 Pascal Programming	5 quarter hours
CS 320 COBOL Programming	5 quarter hours
CS 440 Database Systems	5 quarter hours
CS 420 Business Programming Applications	5 quarter hours
CS 450 Software Engineering	5 quarter hours
CS 451 Systems Analysis & Design	5 quarter hours
CS 452 Software Implementation & Acceptance Testing Techniques	5 quarter hours
Electives in Computer Science (upper level)	15 quarter hours

CS 435 Data Structures
CS 345 Computer Architecture
CS 415 Operating Systems
CS 316 Ada Programming

Bachelor of Science
Technical Management - Computer Science

In addition to selected Business Administration and Accounting courses, the major requires a concentration of course work in either Biology, Chemistry, Physics, Mathematics, Instrumentation Technology, Nondestructive Testing Technology or Computer Science. Program components for the degree with a concentration in Computer Science include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Completion of the following courses:

Business Administration and Accounting Course requirements:

Principles of Accounting I and II	10 quarter hours
Principles of Economics I and II	10 quarter hours

BU 305 Statistical Methods of Business	5 quarter hours
BU 311, 312 Legal Studies in Business I and II	10 quarter hours
MK 331 Marketing Principles	5 quarter hours
MG 346 Management & Organization	5 quarter hours

Natural Science and Mathematics Course Requirements:

Pre-Calculus	5 quarter hours
Calculus	10 quarter hours
General Chemistry	15 quarter hours
Generaly Physics	15 quarter hours
BASIC or FORTRAN Programming	5 quarter hours

Computer Science Concentration:

MA 308 Discrete Mathematics	5 quarter hours
CS 315 Pascal Programming	5 quarter hours
CS 320 COBOL Programming **or** CS 330 FORTRAN Programming	5 quarter hours
CS 340 Assembly Language Programming	5 quarter hours
CS 440 Database Systems	5 quarter hours
CS 450 Software Engineering	5 quarter hours
CS 451 System Analysis & Design	5 quarter hours
CS 452 Software Implementation and Acceptance Testing Techniques	
Electives in Computer Science (upper level)	15 quarter hours

A minor is **not** required.

COMPUTER SCIENCE (CS) COURSES

CS 300 Introduction to Business Computing. An introduction to computing designed specifically for business students. The course provides a general introduction to computers plus a study of the application and utilization of commercial software packages for business. Topics will include analysis of possible advantages and/or disadvantages of various commercial packages, the capabilities and maintainability of software packages, and hands-on experience in using packaged software. Laboratory included.

5 quarter hours

CS 301 Introduction to Computers and Programming. An introductory computer course using the BASIC programming language. The course introduces the nature and characteristics of microcomputers, the role of computers in society, the defining of algorithms for computer solution of problems, the techniques of structured problem solving, and generation of flowcharts. The student will develop working programs that utilize BASIC. Laboratory included.

5 quarter hours

CS 302 BASIC Programming. Detailed study of advanced techniques in the BASIC language, including array processing, specialized Input/Output procedures, and string and file manipulation. Modular design and development of cost effective software that utilize basic algorithmic processes such as sorting techniques, matrix manipulation, searching, disk searching and data retrieval. Laboratroy included. Prerequisite: Introduction to Computers and Programming (CS 301) or equivalent. 5 quarter hours

CS 305 RPG Programming. Introduces the uses of the RPG language to solve many business and data processing problems. Emphasis is upon the programming language and its applications. Laboratory included. Prerequisite: Introduction to Business Computing (CS 300) or equivalent. 5 quarter hours

CS 310 Microprocessor Technology. Covers structure, programming, theory, and applications of microprocessors. Introduces microcomputers for automatic control. Laboratory included. Also listed as IT 310. 5 quarter hours

CS 315 Pascal Programming. The course emphasizes modern programming methods and techniques such as modular, structured, top-down design and interactive programming. It emphasizes algorithm development, Pascal syntax, semantics and pragmatics, procedures, functions and recursion. Course will include hands-on development, implementation, and execution of a wide variety of Pascal programs. Prerequsite: Introduction to Computers and Programming (CS 301) or equivalent.

5 quarter hours

CS 316 Ada Programming. Introduction to the basic concepts of the Ada language including conceptual overview, terminology, data types, development and usage of basic expressions, object declarations, packages, tasking, subprograms and generics. Development and usage of basic concepts through programming assignments that cover topics such as data abstraction, information hiding, packages and multiple tasking concepts. Laboratory included. Prerequisite: Pascal (CS 315).

5 quarter hours

CS 317 "C" Programming. Introduction to the basic concepts of C-language including usage as a higher-level language and capabilities that allow the user the power and flexibility of the preprocessor to do bit manipulation. Development and usage of basic concepts through programming assignments that cover topics such as data types, structures, pointers, functions and operations on bits. Laboratory included. Prerequisite: Discrete Mathematics (MA 308) and Pascal Programming (CS 315).

5 quarter hours

CS 320 COBOL Programming. Introduces computer applications in business. Emphasis is upon the use of the COBOL programming language and structured programming techniques for data processing and business modeling. Laboratory included. Prerequisite: Introduction to Business Computing (CS 300) or equivalent.

5 quarter hours

CS 330 FORTRAN Programming. Introduction to the concepts of algorithms, program construction, and the use of FORTRAN language in both numerical and non-numerical applications. Laboratory included. Prerequisite: Discrete Mathematics (MA 108) or equivalent.

5 quarter hours

CS 335 Programming Languages. This course is an indepth study of similarities and differences of modern programming languages such as Pascal, FORTRAN, C, Ada. Laboratory assignments include data and control structures and require student hands-on experience in the usage and characteristics of various languages. Laboratory included. Prerequisite: Pascal Programming (CS 315) and FORTRAN Programming (CS 330)

5 quarter hours

CS 340 Assembly Language Programming. Extends programming concepts to machine level using assemblers, macros, and other software aids. Laboratory included. Prerequisite: A programming language course.

5 quarter hours

CS 341 Micro Assembly Language. This course introduces and utilizes programming concepts at machine-level using micro-assemblers, macros and techniques in fixed word length addressing. Laboratory assignments provide a working knowledge of subroutine development and linkage, list processing, data structures and data processing. Laboratory included. Prerequisite: A Programming language and Discrete Mathematics (MA 308).

5 quarter hours

CS 345 Computer Architecture. Provides an indepth analysis of the logic and design of basic computer functional units; shows how functional units are organized into a computer subsystem; illustrates the role and interaction of computer subsystems in the execution of a program; and allows the student to develop the capability to read and write logical flow diagrams and block diagrams pertaining to the operations and roles of computer components. Prerequisite: Microprocessor Technology (CS 310) or Micro Assembly Language (CS 341).

5 quarter hours

CS 401 Introduction to Computer Instrumentation and Communications. Survey course on modern computers, their architecture, and peripherals. Illustrates functional breakdown of systems and their applications. Knowledge of programming is useful, but not required. Also listed as IT 401.

5 quarter hours

CS 415 Operating Systems. A detail study of the components and their hierarchial organization that constitute a basic operating system with emphasis on process management, memory management, real-time clock utilization, device drivers and interfaces, intermachine (network) communications and file system management. Emphasis on functional components necessary for an efficient operating system for a microprocessor/computer. Laboratory included. Prerequisite: Micro Assembly Languages (CS 341) or instructor's permission.

5 quarter hours

CS 416 Compilers - Design and Construction. Laboratory assignments provide an indepth study of the development and implementation of a compiler. Course concentrates on areas of formal language definition, translation, execution and memory allocation, lexical analysis, syntax analysis, symbol tables, code generation and error detection. Laboratory included. Prerequisite: Pascal Programming (CS 315), Discrete Mathematics (MA 308), and Assembly Language Programming (CS 340) or Micro Assemble Language (CS 341).

5 quarter hours

CS 420 Business Programming Applications. Develops advanced techniques in COBOL. Allows students to participate in real-life applications beginning with projects definition, continuing through requirements and ending with a deliverable product. Laboratory included. Prerequisite: CS 320 or equivalent.

5 quarter hours

CS 423 Computer Graphics. Introduction to the language aspects of computer graphics applied to plotting and interactive displays. Lectures and laboratory assignments concentrate on generation, representation, manipulation, processing or evaluation of graphic objects and computer graphics as they relate to information residing in memory. Laboratory included. Prerequisite: Assembly Language Programming (CS 340) or Micro Assembly Language (CS 341) and Pascal Programming (CS 315).

5 quarter hours

CS 425 Artificial Intelligence Languages. LISP and Prolog will be studied and applied in developing AI type programs. Laboratory included. Prerequisite: Programming Languages (CS 335).

5 quarter hours

CS 426 Introduction to Artificial Intelligence. Introduction to application areas: information-processing, robots, natural language systems and automatic programming. Includes basic methodologies and techniques, modeling and representation, problem solving, languages and systems. Laboratory included. Prerequisite: Discrete Mathematics (MA 308) and Artificial Intelligence Languages (CS 425).

5 quarter hours

CS 430 Scientific Programming Applications. An indepth study of advanced techniques including structured design and the use of subroutines and functions. Emphasis is on well designed interfaces; sequential and random file manipulation; de-bug procedures; and state-of-the-art programming techniques for effective utilization of memory and/or CPU time. Students will utilize these procedures in the development and validation of software for an assigned scientific project to be developed on a large scale general purpose computer. Laboratory included. Prerequisite: FORTRAN Programming (CS 330), Pascal Programming (CS 315), or Ada Programming (CS 316).

5 quarter hours

CS 435 Data Structures. Teaches the nature and significance of special structures such as linked lists, trees and graphs. The student develops software utilizing procedures such as stacks, queues, records, memory management, sorting, algorithms and hashing. Laboratory included. Prerequisite: Pascal Programming (CS 315).

5 quarter hours

CS 440 Database Systems. Introduces database systems and their utilization. Concepts included organization, communications, integrity and security. Relational, hierarchial and network database organizations are compared. Prerequisite: Data Structures (CS 435) or instructor's permission.

5 quarter hours

CS 441, 442, 443, 444 Special Topics in Computer Science. Topics which may be covered are special programming languages, compilers, system design, graphics and applications of scientific programming.

1-5 quarter hours each

CS 450 Software Engineering. The course will familiarize the student with the entire software life cycle, spanning the time from conception of the actual requirements, through the analysis, design, and development cycle and into the operation and maintenance of an actual software project. The course will take an indepth view of methodolgies that lead to developing a system utilizing sound engineering principles to obtain a cost-effective and

maintainable product. Prerequisite: FORTRAN Programming (CS 330), Pascal Programming (CS 315), or instructor's permission.
5 quarter hours.

CS 451 Systems Analysis and Design. An indepth study and application of various scientific methodologies for analysis of actual requirements leading to identification and resolution of conflicts in all disciplines such as scheduling, hardware utilization, configuration control and cost-effectiveness. The application of these methods teach the student to establish designs to achieve the desired performance within imposed human, environmental and financial constraints. Prerequisite: Software Engineering (CS 450).
5 quarter hours

CS 452 Software Implementation and Acceptance Testing Techniques. A continuation of CS 451 in which the student gains hands-on experience in structured programming techniques in the implementation of a structured design software project. Topics included will be acceptable techniques in module and system testing, verification and validation procedures, and cost effective software maintenance. Laboratory included. Prerequisite: Systems Analysis and Design (CS 451).
5 quarter hours

CS 460 Directed Study/Special Computer Science Projects. By permission of instructor and academic unit coordinator.
1-5 quarter hours

MATHEMATICS (MA)

The department of mathematics offers majors leading to the Bachelor of Science or the Bachelor of Science in Education degree-degrees which will prepare the graduate for scientific endeavors requiring detailed and exact scientific analysis, or for a rewarding career as a high school and/or middle school mathematics teacher. A mathematics major combined with a Computer Science minor will open many career opportunities for the graduate.

Bachelor of Science - Mathematics Major

Program components for the Bachelor of Science degree with a major in Mathematics include:

1. Specific degree requirements for the degree and applicable general college requirements and conditions for graduation.
2. A fifty-five hour major of which at least twenty-five hours must be taken at Athens State College.
3. The major must include the following courses:

Pre-Calculus (or equivalent)	5 quarter hours
Calculus	10 quarter hours

Intermediate Calculus	10 quarter hours
Differential Equations	5 quarter hours
Upper level Mathematics electives	25 quarter hours
General Chemistry	15 quarter hours
General Physics (Calculus based)	15 quarter hours
BASIC or FORTRAN Programming	5 quarter hours

4. An approved minor in a scientific field is required.

Bachelor of Science in Education - Mathematics Major

Program components for the Bachelor of Science in Education degree with a major in Mathematics include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Professional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. The major must include the following courses:

Calculus	10 quarter hours
Intermediate Calculus	10 quarter hours
BASIC or FORTRAN Programming	5 quarter hours

plus four mathematics electives (20 quarter hours of coursework) with catalog numbers higher than MA 306.

4. A second approved teaching major is **not** required.
5. A minor is not required.

MATHEMATICS MINOR

A minor in Mathematics requires thirty quarter hours of mathematics, including fifteen quarter hours of upper division coursework, at least ten quarter hours of which must be taken at Athens State College. The following courses must be included:

Calculus	10 quarter hours
Intermediate Calculus	10 quarter hours
Differential Equations	5 quarter hours

MATHEMATICS (MA) COURSES

MA 300 General Mathematics. Provides experience in working everyday mathematics encountered by consumers, trains the student to use a hand held calculator to compute exact cost for groceries, insurance, utilities, car and home payments. Provides an introduction to elementary probability, including standard deviation computations. Use of a hand held calculator is required. Not acceptable as a mathematics elective for mathematics, math education, or science majors. 5 quarter hours

MA 301 Elementary Algebra. Provides an introduction to algebra including signed numbers, solution of equations, polynomials,

factoring, fractions, graphs, roots and radicals, systems of linear equations and quadratic equations.

5 quarter hours

MA 302 Pre-Calculus. Provides essential techniques and applications of algebra, geometry, and trigonometry in preparation for the calculus. Not acceptable as an upper division mathematics elective for mathematics majors/minors. 5 quarter hours

MA 303/304 Calculus. Introduction to limits plus techniques and applications of differential and integral calculus.

5 quarter hours each

MA 305/306 Intermediate Calculus. A continuation of MA 303/304 covering infinite series, conics, vectors, functions of several variables and multiple integration.

5 quarter hours each

MA 308 Discrete Mathematics. Introduces the student to topics in mathematical models, mathematical reasoning, sets, relations and functions, Boolean algebra, special data structures and special algebras. An application of these topics will teach the nature and purpose of mathematical models, the algegra of logic, sets and groups, and relationships between mathematics and Computer Science. Prerequisite College Algebra.

5 quarter hours

MA 310 Matrices and Linear Algebra. Matrices, systems of equations, determinants, vector spaces, and applications. Prerequisite MA 304.

5 quarter hours

MA 314 College Geometry. Foundations of Euclidean geometry to include geometric construction and properties of regular polygons and circles. Based on logical statements and formal proofs.

5 quarter hours

MA 316 Vector Analysis. Vector algebra, vector operators, vector functions, scalar and vector fields, divergence, curl, Laplacian, line and surface integrals, orthogonal curvilinear coordinates, divergence theorem, Stoke's and Green's theorems. Prerequisite MA 304.

5 quarter hours

MA 320 Modern Algebra. Number systems, group fundamental properties, introduction to rings, fields and ideals. Prerequisite: College Algebra. 5 quarter hours

MA 401 Complex Analysis. Covers complex numbers, analytic functions and integrals, conformal mapping, sequences and series, and integration by the method of residues. Prerequisite MA 306.

5 quarter hours

MA 421 Differential Equations. Ordinary differential equations with applied examples from different scientific introduction to Laplace Transformation. Prerequisite MA 304. 5 quarter hours

MA 423 Numerical Analysis. Introduction to numerical methods for interpolation, evaluating roots of polynomials, systems of equations, integration, differentiation, differential equations, and approximation and error. Computer laboratory work is required. Prerequisite: MA 306. 5 quarter hours

MA 427 Applied Math I. Practical problems in linear algebra and vector analysis which are important in the fields of science and engineering. Prerequisite MA 304. 5 quarter hours

MA 428 Applied Math II. A continuation of MA 427 with applications in partial differential equations, Fourier series, and numerical methods. Prerequisite MA 421. 5 quarter hours

MA 430/431 Theory of Statistics and Probability. Considers measures of control tendency, measures of dispersion, comparison of distributions, correlation, probability, normal curves and sampling. Prerequisite: MA 306. 5 quarter hours each

MA 441, 442, 443, 444 Special Topics in Mathematics. To be offered on occasion of student demand or need. 1-5 quarter hours

MA 450/451 Advanced Calculus. Multivariant Calculus, theory of limits, continuity, Taylor expansion, line and surface integrals, Green's and Stoke's Theorems, the divergence theorem, and various applications. NOTE: These courses partially duplicate MA 316. Prerequisite MA 306.

5 quarter hours each

MA 460 Directed Study/Research in Mathematics. To be offered on occasion of student demand or need.

1-5 quarter hours

MA 480/481/482 Mathematics Seminar. Independent studies in topics chosen either to extend investigation in fields already studied or to explore areas not covered by other advanced courses.

1-5 quarter hours each

PHYSICS (PY)

The Physics program prepares the graduate for a career as a research laboratory physicist, for entry into a number of related fields including engineering, medicine, medical research, geology/geophysics, and for graduate degree programs in Physics.

Bachelor of Science - Physics

Program components for the Bachelor of Science degree with a major in Physics include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. A sixty quarter hour major, including forty-five quarter hours of upper division coursework, at least twenty-five quarter hours of which must be taken at Athens State College.
3. PY 301, 302, 303 will not be credited toward the upper division requirement.
4. The major must include the following courses:

General Chemistry	15 quarter hours
MA 303/304 Calculus	10 quarter hours
MA 305/306 Intermediate Calculus	10 quarter hours
MA 401 Complex Analysis	5 quarter hours
MA 421 Differential Equations	5 quarter hours
MA 427/428 Applied Math	10 quarter hours
IT 435 Instrumentation Survey	5 quarter hours
PY 301/302/303 Physics	15 quarter hours
PY 305 Introduction to Modern Physics	5 quarter hours
PY 311/312 Electricity and Magnetism	10 quarter hours
PY 313/314 Mechanics	10 quarter hours
PY 411 Heat and Thermodynamics	5 quarter hours
Upper level Physics electives	15 quarter hours

5. Since the equivalent of a minor in mathematics is specifically required by the major, no additional minor is required.

PHYSICS MINOR

A minor in physics requires thirty quarter hours of Physics including fifteen quarter hours of upper division coursework, at least ten quarter of hours of which must be taken at Athens State College.

PHYSICS (PY) COURSES

PY 300 College Science Physics. A non-laboratory course presenting basic concepts of physics, astronomy, and geology. This course will not serve as a prerequisite for any other course in physics.
5 quarter hours

PY 301/302/303 Physics. A calculus-based introduction to the principles of mechanics, heat, sound, electricity, magnetism, and light. Laboratory included. 5 quarter hours each

PY 305 Introduction to Modern Physics. The development of quantum physics from a historical perspective. Introduction to relavistic kinematics, wave/particle duality, and atomic and nuclear structure. Prerequisite PY 303.
5 quarter hours

PY 311/312 Electricity and Magnetism. The theory of electro-magnetic fields and waves as developed from the basic experimental laws. Application of these theories is made to d.c. and a.c. circuits. Emphasis is placed upon techniques of problem solving.

Prerequisite: One year of physics. Corequisites: Intermediate Calculus and Differential Equations. 5 quarter hours each

PY 313/314 Mechanics. A study of the laws and principles of statics, dynamics, vectors, torques, conditions for equilibrium, and moments of inertia. The solution of many problems is required. Prerequisite: One year of Physics. Corequisite: Intermediate Calculus. 5 quarter hours each

PY 344 Principles of Optics. A study of optical phenomena including wave motion, reflection, refraction, image formation, dispersion, interference, diffraction, and polarization. Prerequisite PY 312. 5 quarter hours

PY 345 Physical Optics. Selected topics in classical and modern physical optics. Covers the vector nature of light, matrix representation, light propagation, coherence, interference, Fresnel and fraunhoffer diffraction, stimulated emission, lasers, and holography. Prerequisite PY 344. 5 quarter hours

PH 410 Introduction to Solid State Physics. Structure and electrical and magnetic properties of solids. Phenomena covered includes lattice vibrations and the band theory of metals, semiconductors, and insulators. Prerequisite PY 305, MA 421. 5 quarter hours

PY 411 Heat and Thermodynamics. A study of calorimetry, equations of state, heat transfer and the laws of thermodynamics. Prerequisites: One year of Physics and Intermediate Calculus. 5 quarter hours

PY 412 Modern Physics. A course in the electronic structure of the atom, including the nature of matter, electromagnetic radiations, x-rays, and crystal structure. Prerequisites: PY 311 and 312 or the equivalent. 5 quarter hours

PY 414 Nuclear Physics. The structure of the atomic nucleus, isotopes, natural radioactivity, the laws of radioactive transformation, transmutation, nuclear reactions, and nuclear structure. Prerequisite: PY 412 or the equivalent. 5 quarter hours

PY 415/416 Intermediate Modern Physics. Introduction to quantum mechanics, postulates, Schroedinger wave equation, applications to microscopic systems; Fermi-Dirac and Bose-Einstein statistics, and the special theory of relativity. Prerequisite PY 305, MA 421. 5 quarter hours

PY 418 Statistical Thermodynamics. The concepts of termperature, entropy and the chemical potential are developed from the principles of equilibrium quantum states. Quantum statistics are developed. Prerequisite PY 416. 5 quarter hours each

PY 420 Problems in Theoretical Physics. Prerequisite: One year of Physics and MA 421. 5 quarter hours

PY 441, 442, 443, 444 Special Topics in Physics. To be offered on occasion of student demand and need. 1-5 quarter hours

PY 460 Directed Study and Research in Physics. 1-5 quarter hours

HEALTH SCIENCE

Athens State College believes that the medical sciences should be augmented with general studies. The close contact that members of the medical professions have with other individuals and the concomitant need for understanding and relating to these individuals as unique human beings are bases for this liberal arts program.

The Bachelor of Science degree with a major in Health Science is a two-year program of study offered to Registered Nurses and students certified in other para-medical fields.

The following credentials will be required and should be submitted to the Athens State College Office of Admissions and Records:

1. a transcript of the school of nursing record.
2. evidence of RN licensure, and
3. application materials normally required of all entering students.

College work taken in addition to the school of nursing requirements will be evaluated on its own merit for advanced standing and transfer credit. Coursework taken at an accredited college or university as part of the school of nursing requirements will be evaluated for advanced standing.

Bachelor of Science - Health Science Major

Program components for the Bachelor of Science degree with a major in Health Science include:

1. Specific degree requirements for the degree and applicable general college requirements and conditions for graduation.
2. A major is required. Major requirements **may** be satisfied by completing the courses specified by any regular academic department for a major in the Bachelor of Science in Education degree program. If the chosen department does not specify a major for the Bachelor of Science in Education degree program, forty quarter hours in that department chosen in conference between the student and his or her academic advisor, will satisfy the requirements.

Nursing professionals seeking supervisory personnel management positions may wish to consider the following option:

CS 301 Introduction to Computers	5 quarter hours
BU 311 Legal Studies in Business I	5 quarter hours
BU 312 Legal Studies in Business II	5 quarter hours
BU 368 Industrial and Personnel Psychology	5 quarter hours
MG 346 Management and Organization	5 quarter hours
MG 349 Human Resources Management	5 quarter hours
Speech	5 quarter hours
SO 304 Sociology of Work (or an approved Business elective)	5 quarter hours

3. No less than ninety-six quarter hours of academic subject matter, in addition to the nursing school courses, are required for this program.
4. A minor is **not** required.

Similar programs can be tailored to the needs of the student who has been certified in one of the para-medical fields such as dental hygiene, medical records, medical technology, health physicist, animal health technology, and others.

COMPREHENSIVE SCIENCE

High school science teachers may be certified in comprehensive science. Preparation for this certificaton requires a foundation developed by a minimum of twenty quarter hours of study in each of the following areas: biology, chemistry, physics, and earth and space science.

1. Specific degree requirements for the degree and applicable general college requirements and conditions for graduation.
2. Professsional education requirements for middle school and/or high school certification as listed in the Division of Education section of this catalog.
3. An eighty quarter hour interdepartmental comprehensive science major to include at least thirty quarter hours of upper division science coursework, with no less than twenty quarter hours coursework in each of the following areas: (1) biology: (2) chemistry; (3) physics; and (4) earth and space science.
4. Biology courses required for this degree include:

Principles of Biology	5 quarter hours
General Botany	5 quarter hours
General Zoology	5 quarter hours

and one of the following:

BI 322 Evolution, Heredity, and Human Affairs	
BI 401 Cell Biology	5 quarter hours

5. Chemistry courses required for this degree include General Chemistry (15 quarter hours) plus one chemistry elective selected from among the following courses:

CH 311 Organic Chemistry
CH 312 Organic Chemistry
CH 324 Analytical Chemistry 5 quarter hours

6. Physics courses required for this degree include General Physics (15 quarter hours) plus the following:

   PY 305 Introduction to Modern Physics 5 quarter hours

7. Earth and Space Science courses required for this degree include:
   BI 321 Environmental Studies **or**
   BI 403 General Ecology 5 quarter hours
   GS 300 Astronomy 5 quarter hours
   GS 302 Earth Science 5 quarter hours
   Earth or Space Science 5 quarter hours
8. Mathematics courses required for this degree include ten quarter hours of Calculus, ten quarter hours of Intermediate Calculus and five quarter hours of Differential Equations.
9. A second approved teaching major in **not** required.
10. A minor is **not** required.

GENERAL SCIENCE (GS) COURSES

GS 300 Astronomy. Designed to help the student gain an understanding of how the astronomer studies his subject and to appreciate the grandeaur of the universe. Emphasis on the methods of astronomy, the solar system, stars, and galaxies, and covering the topics of relativity and extraterrestrial life. No prior background in science is required. 5 quarter hours

GS 301 Atmospheric and Space Science. Provides the student with physical explanations of atmospheric, including meteorological, phenomena, and explores opportunities for future worthwhile human purposes made possible or significantly aided by rockets, satellites, and space probes. No prerequisites. 5 quarter hours

GS 302 Earth Science. An introduction to the materials that make up the visible earth and to the various processes responsible for wearing down and shaping the landscape, including an analysis of environmental issues which relate this science to human activities. No prerequisites. 5 quarter hours

GS 307 Small Computers for Business and Personal Use. The evolving technology in microcomputer systems will enable more laymen to become computer users in the near future. This course develops the concepts required for non-technical users of small computer systems. 5 quarter hours

Science Courses for the Non-Science Major

The following are recommended elective courses for the non-science major or minor:

BI 321 Environmental Studies. Presents bioligical and physical aspects of environmental problems, integrating current legal, economic, social, and technical developments. 5 quarter hours

BI 322 Evolution, Heredity and Human Affairs. Presents an integrated, total picture of humanity through details and examples of evolution, emphasizing the descent of man, reproduction as a mechanism for the transmission of hereditary traits, and basic principles of inheritance. 5 quarter hours

BI 323 Human Sexuality. A comprehensive and integrated approach to human sexuality emphasizing biological aspects. 5 quarter hours

BI 343 Life Manipulation. Examines the various possibilities at hand for manipulating our biological future-cloning, psychosurgery, delayed aging, test-tube babies, artifical organs, gene splicing, artificial insemination, sex preselection, prenatal diagnosis of birth defects, etc. - and their social, legal and ethical impacts on society. 5 quarter hours

CH 300 College Science Chemistry. A non-laboratory course presenting basic concepts of chemistry, geology, and meterology. This course does not serve as a prerequisite for any other course in the sciences. 5 quarter hours

GS 300 Astronomy. Designed to help the student gain an understanding of how the astronomer studies his subject and to appreciate the grandeur of the universe. Emphasis on the methods of astronomy, the solar system, stars, and galaxies, and covering the topics of relativity and extraterrestrial life. No prior background in science is required. 5 quarter hours

GS 301 Atmospheric and Space Science. Provides the student with physical explanations of atmospheric, including meteorological, phenomena, and explores opportunities for future worthwhile human purposes made possible or significantly aided by rockets, satellites, and space probes. No prerequisites. 5 quarter hours

GS 302 Earth Science. An introduction to the materials that make up the visible earth and to the various processes responsible for wearing down and shaping the landscape, including an analysis of environmental issues which relate this science to human activities. No prerequisite. 5 quarter hours

GS 307 Small Computers for Business and Personal Use. The evolving technology in microcomputer systems will enable more laymen to

become computer users in the near future. This course develops the concepts required for non-technical users of small computer systems. 5 quarter hours

PY 300 College Science Physics. A non-laboratory couse presenting concepts of physics, astronomy, and geology. This course does not serve as a prerequisite for any other course in the sciences. 5 quarter hours

SCIENTIFIC TECHNOLOGY (IT/NT)

Scientific Technology is multi-disciplinary, dealing with the theory and practical applications of modern technologies. The following majors are offered: Instrumentation Science, Instrumentation Technology, Nondestructive Testing Science, Nondestructive Testing Technology, and Technical Management.

Those students interested in continuing their education beyond the baccalaureate degree who plan to enroll in a scientific or engineering graduate program should complete only programs which lead to a Bachelor of Science degree in Instrumentation Science or Nondestructive Testing Science.

Bachelor of Science -Instrumentation Science Major

Program components for the Bachelor of Science degree with a major in Instrumentation Science include:

1. Specific degree requirements for the degree and applicable general college requirements and conditions for graduation.
2. Completion of the following courses:

MA 303, 304, 305, 306 Calculus	20 quarter hours
MA 421 Differential Equations	5 quarter hours
MA 427 Applied Math	5 quarter hours
PY 301, 302, 303 General Physics (Calculus based)	15 quarter hours
PY 311, 312 Electricity and Magnetism	10 quarter hours
PY 313, 314 Mechanics	10 quarter hours
IT 435 Instrumentation Survey	5 quarter hours
CH 303, 304, 305 General Chemistry	15 quarter hours
PY 305 Introduction to Modern Physics	5 quarter hours
IT 402 Interfacing Fundamentals	5 quarter hours
IT 416 Applied Digital Electronics	5 quarter hours
IT 420 Electro-Optics	5 quarter hours
IT 425 Introduction to Robotics	5 quarter hours
IT 430 Electronic Materials Technology	5 quarter hours
IT 440 Process Control Instrumentation	5 quarter hours
IT Electives	10 quarter hours
Electives (Chemistry, Physics, Math or Computer Science beyond the introductory courses)	15 quarter hours

3. At least twenty-five quarter hours of IT courses must be completed at Athens State College.
4. A minor is **not** required.

Bachelor of Science -instrumentation Technology Major

Program components for the Bachelor of Science degree with a major in Instrumentation Technology include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Completion of the following courses:

MA 303, 304 Calculus	10 quarter hours
PY 301, 302, 303 General Physics (Calculus based)	15 quarter hours
CH 301 Chemistry for Technology	5 quarter hours
IT 301 Electronic Circuit Analysis	5 quarter hours
IT 302 Analog Instrumentation Electronics	5 quarter hours
IT 303 Digital Instrumentation Electronics	5 quarter hours
IT 310 Microprocessor Technology	5 quarter hours
IT 315 Maintenance and Repair	5 quarter hours
IT 401 Computer Instrumentation and Communications	5 quarter hours
IT 402 Interfacing Fundamentals	5 quarter hours
IT 416 Applied Digital Electronics	5 quarter hours
IT 420 Electro Optics	5 quarter hours
IT 425 Introduction to Robotics	5 quarter hours
IT 440 Process Control Instrumentation	5 quarter hours
IT Electives	10 quarter hours
General Electives	27 quarter hours

3. At least twenty-five quarter hours of IT courses must be completed at Athens State College.
4. A minor is **not** required.

Bachelor of Science - Nondestructive Testing Science Major

Program components for the Bachelor of Science degree with a major in Nondestructive Testing Science include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Completion of the following courses:

MA 303, 304, 305, 306 Calculus	20 quarter hours
MA 421 Differential Equations	5 quarter hours
MA 427 Applied Math I	5 quarter hours

PY 301, 302, 303 General Physics (Calculus based)	15 quarter hours
PY 311, 312 Electricity and Magnetism	10 quarter hours
PY 313, 314 Mechanics	10 quarter hours
IT 435 Instrumentation Survey	5 quarter hours
CH 303, 304, 305 General Chemistry	15 quarter hours
CH 314/315 Polymer Science	10 quarter hours
CH 316 Composites	5 quarter hours
CH 330 Chemical Thermodynamics	5 quarter hours
NT 301 Strength of Materials	5 quarter hours
NT 302 Metallurgy	5 quarter hours
NT 303 Failure Analysis	5 quarter hours
NT 428 Acoustic Testing Methods	5 quarter hours
NT 429 Electromagnetic Testing Methods	5 quarter hours
NT 430 Advanced NDT Concepts	5 quarter hours
Electives (Chemistry, Physics, Math or Computer Science beyond the Introductory courses)	10 quarter hours

3. At least twenty-five hours of NT courses must be completed at Athens State College.
4. A minor is **not** required.

Bachelor of Science - Nondestructive Testing Technology

Program components for the Bachelor of Science degree with a major in Nondestructive Testing Technology include:

1. General education requirements for the degree and applicable general requirements and conditions for graduation.
2. Completion of the following courses:

MA 303, 304 Calculus	10 quarter hours
PY 301, 302, 303 General Physics (Calculus based)	15 quarter hours
CH 301 Chemistry for Technology	5 quarter hours
IT 301 Electronic Circuit Analysis	5 quarter hours
IT 302 Analog Instrumentation Electronics	5 quarter hours
IT 303 Digital Instrumentation Electronics	5 quarter hours
NT 301 Strength of Materials	5 quarter hours
NT 302 Metallurgy	5 quarter hours
NT 303 Failure Analysis	5 quarter hours
NT 305 Surface Inspection	5 quarter hours
NT 310/311 Radiography	10 quarter hours
NT 401 Codes and Specs	5 quarter hours
NT 420/421 Ultrasonic Testing	10 quarter hours
NT 440 Eddy Current Testing	5 quarter hours

NT 450 Leak Testing	5 quarter hours
General Electives	22 quarter hours

3. At least twenty-five hours of NT courses must be completed at Athens State College.
4. A minor is **not** required.

SCIENTIFIC TECHNOLOGY MINOR

A minor requires the following courses, of which at least fifteen quarter hours must be taken at Athens State College.

Instrumentation Technology

IT 301 Electronic Circuit Analysis	5 quarter hours
IT 302 Analog Instrumentation Electronics	5 quarter hours
IT 303 Fundamentals of Digital Instrumentation Electronics	5 quarter hours
IT 310 Microprocessor Technology	5 quarter hours
IT 402 Interfacing Fundamentals	5 quarter hours
IT Electives	10 quarter hours

Nondestructive Testing Technology

CH 301 Chemistry for Technology	5 quarter hours
NT 300 Introduction to Nondestructive Testing	5 quarter hours
NT 302/303 Materials Technology	10 quarter hours
NT 305 Surface Inspection Techniques	5 quarter hours
NT 310/311 Radiographic Testing	10 quarter hours
NT Elective	5 quarter hours

INSTRUMENTATION (IT) COURSES

IT 301 Electronic Circuit Analysis. An intensive course in AC/DC circuit theory and analysis using Kirchoff's laws, Thevenin's theorem, and Norton's theorem. Both active and passive circuits are covered. Laboratory included. Prerequisite: PY 303
5 quarter hours

IT 302 Analog Instrumentation Electronics. A study of power supplies, amplifiers, op-amps, filters, electronic transducers and measurement techniques. Laboratory included. Prerequisite: IT 301. 5 quarter hours

IT 303 Fundamentals of Digital Instrumentation Electronics. An introduction to number systems, codes, Boolean logic, and basic digital circuit building blocks. Applications of gates flip-flops, registers, counters, ADC and DAC circuits, memories and other MSI and LSI circuits. Laboratory included. Prerequisite: IT 302.
5 quarter hours

IT 310 Microprocessor Technology. Covers structure, programming, theory, and applications of microprocessors. Introduces microcomputers for automatic control. Laboratory included.
5 quarter hours

IT 315 Instrument Maintenance and Repair. Illustrates theory and practice of maintenance and repair. Covers servo systems, solid state, and electron tube components, and circuits. Laboratory included. Prerequisites: IT 302, IT 303. 5 quarter hours

IT 400 Advanced Analog Instrumentation. Theoretical analysis of modern networks using operational amplifiers, analog filters, and practical circuits for communications and data acquisition systems. Laboratory included. Prerequisites: MA 421 and IT 302.
5 quarter hours

IT 401 Introduction to Computer Instrumentation and Communications. Survey course on modern computers, their architecture, and peripherals. Illustrates functional breakdown of systems and their applications. Knowledge of programming is useful, but not required. Also listed as CS 401. 5 quarter hours

IT 402 Interfacing Fundamentals. Provides necessary background to interface real world physical measurables to digital systems, including computers. Emphasizes ADC and DAC circuits and their utility as interface elements. Laboratory included. Prerequisite: IT 302, IT 303, IT 310. 5 quarter hours

IT 410 Instrumental Analysis. Theoretical and practical application of modern instrumentation to problems in analytical chemistry. Optical, electrochemical, and other instrumentation techniques are covered. Laboratory included. Prerequisite: CH 305 or CH 311. Also listed as CH 410. 5 quarter hours

IT 416 Applied Digital Electronics. Designed to acquaint student with the theory and applications of digital electronics. Offers investigative opportunity for the student to explore his or her own creativeness in digital design and application. More advanced than IT 303. Laboratory included. 5 quarter hours

IT 420 Electro-Optics. Emphasizes the latest technology in laser systems, light detection and displays, and applications. Optics helpful, but not required. Laboratory included. Prerequisites: IT 302, IT 303, PY 303. 5 quarter hours

IT 425 Introduction to Robotics. Fundamentals of Robotics including a study of robotic motion, computer interfaces, robotic vision, and capabilities. Laboratory included.
5 quarter hours

IT 430 Electronic Materials Technology. Covers solid state theory and applications, theoretical analysis of semiconductors, and photoactivated devices. Prerequisite: MA 421 5 quarter hours

IT 435 Instrumentation Survey. Principles of instrumentation systems. The detection, measurement and logical use of physical quantities with an emphasis on the physical process, transducers and signal processing. Prerequisite: PY 311/312.

5 quarter hours

IT 440 Process Control Instrumentation. Provides an in-depth analysis of process control fundamentals, transducers and instrumentation. Laboratory included. Prerequisites: IT 302, IT 303.

5 quarter hours

IT 441, 442, 443, 444 Special Topics in Instrumentation. To be offered on occasion of student demand or need.

1-5 quarter hours

IT 460 Directed Study/Special Instrumentation Projects. By permission of instructor and academic unit coordinator.

1 - 5 quarter hours

NONDESTRUCTIVE TESTING (NT) COURSES

NT 300 Introduction to Nondestructive Testing. Presents an overview of the need for NDT and the major techniques used in NDT. Also provides an introduction to welding and other metal joining techniques. 5 quarter hours

NT 301 Strength of Materials. Fundamentals of stress and strain including stress-strain relationships, temperature effects, and torsion. Prerequisite: PY 301/302.

5 quarter hours

NT 302 Metallurgy. A study of the behavior of metals and alloys especially the refining, manufacture and testing of these materials. Laboratory included. Prerequisite: CH 301 or General Chemistry and NT 301.

5 quarter hours

NT 303 Failure Analysis. A study of how and why structural materials, especially metals and alloys, fail in use. The detection and correction of material failure will be emphasized. Laboratory included. Prerequisite: NT 302.

5 quarter hours

NT 305 Surface Inspection Techniques. Lecture and laboratory instruction of the basics in eddy current testing, magnetic particle, and penetrant testing. Laboratory included. 5 quarter hours

NT 310/311 Radiographic Testing. Radiographic safety, sources, and equipment. Also covered are the fundamental requirements for photographic radiography. Laboratory included.

5 quarter hours each

NT 401 Interpretation of Codes and Specifications. Provides basic understanding of codes generated by the various groups such as ANSI and ASME. Blueprint reading, specifications comprehension, and writing of NDT procedures are also covered. 5 quarter hours

NT 420/421 Ultrasonic Testing. Theory of ultra sound generation, propagation of ultrasound in materials, and test methods. Laboratory included. Prerequisites: MA 304, PY 303 and IT 302

5 quarter hours each

NT 428 Acoustic Testing Methods. Application of mechanical and wave properties of materials to nondestructive testing, specifically ultrasonics and acoustic emission. Prerequisite: PY 313 (Corequisite PY 314).

5 quarter hours

NT 429 Electromagnetic Testing Methods. Application of electromagnetic theory to material interactions, specifically in radiography, eddy currents and magnetic particles. Prerequisite: PY 311/312.

5 quarter hours

NT 430 Advanced Nondestructive Testing Concepts. Provides basic instruction in acoustic emission, holography, acoustical holographic NDT, infra-red imaging, and other advanced concepts. Prerequisites: NT 428/429. 5 quarter hours

NT 440 Eddy Current Testing. Provides an introduction to electromagnetic induction phenomena and how principles can be employed to perform nondestructive tests, such as crack detection, thickness measurements, material identification, and heat treat verification. Includes laboratory. Prerequisites: MA 304, PY 303 and IT 302

5 quarter hours

NT 441, 442, 443, 444 Special Topics in Nondestructive Testing. To be offered on occasion of student demand or need.

1-5 quarter hours

NT 450 Leak Testing. Introduces concepts of fluid flow, vacuum science, mass spectrometry, and their applications in leak testing. Laboratory included. Prerequisite: CH 304 or PY 303

5 quarter hours

NT 460 Directed Study/Special Nondestructive Testing Projects. By permission of instructor and academic unit coordinator.

1-5 quarter hours

Bachelor of Science - Technical Management Major

Athens State College offers to interested students a Bachelor of Science degree with a major in Technical Management. In addition to selected Business Administration courses, the major requires a concentration of coursework in either Biology, Chemistry, Mathematics, Physics, Instrumentation Technology, Nondestructive Testing Technology, or Computer Science. The Technical Management major is designed to prepare students for an M.B.A. program or for a career in a technically oriented business field. Regarding program requirements and recommended electives, the student should consult with his or her Natural Science, Mathematics or Scientific Technology advisor.

Program components for the Bachelor of Science degree with a major in Technical Management include:

1. General education requirements for the degree and applicable general college requirements and conditions for graduation.
2. Business Administration courses as follows:

Principles of Economics I & II	10 quarter hours
Principles of Accounting I & II	10 quarter hours
Management and Organization	5 quarter hours
Statistical Methods of Business	5 quarter hours
Legal Studies in Business I & II	10 quarter hours
Marketing Principles	5 quarter hours

3. Natural Science and Mathematics courses as follows:

Pre-Calculus	5 quarter hours
Calculus	10 quarter hours
General Chemistry	15 quarter hours
General Physics	15 quarter hours

4. Pascal or FORTRAN Programming — 5 quarter hours
5. The student must also complete one of the following concentrations of which at least twenty quarter hours must be taken at Athens State College:

Biology

General Biology	15 quarter hours
Cell Biology	5 quarter hours
General Ecology	5 quarter hours
Genetics	5 quarter hours
Biology Electives	10 quarter hours

Chemistry

Organic Chemistry	15 quarter hours
Analytical Chemistry	5 quarter hours
Physical Chemistry	5 quarter hours
Chemistry Electives	10 quarter hours

Physics

Intermediate Calculus	10 quarter hours
General Physics	15 quarter hours
Physics Electives	20 quarter hours

Mathematics

Intermediate Calculus	10 quarter hours
Mathematics Electives(upper division)	20 quarter hours

Instrumentation Technology

Eight five (5) quarter hour courses	40 quarter hours

Nondestructive Testing Technology

Eight five (5) quarter hour courses	40 quarter hours

Computer Science

Eight approved upper-level five (5) quarter hour courses. 40 quarter hours

GENERAL STUDIES PROGRAM

The General Studies program is designed to provide maximum flexibility in course selection for students with specific objectives in mind and for students who seek personal enrichment and fulfillment through collegiate study. While no specified major courses are required the student must comply with all degree requirements for the Bachelor of Science Degree and satisfy all applicable general college requirements and conditions for graduation (page 26).

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Beaty Street
Athens, Alabama 35611

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I am interested in entering Athens State College in the Fall ( ) Winter ( ) Sprint ( ) Summer ( ) quarter of _____. Please send the necessary application materials to:

_____
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_____
STREET ADDRESS/R.R.

_____
City *State* *Zip*

( ) I will be a transfer student from _____
Name of College

_____ _____

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